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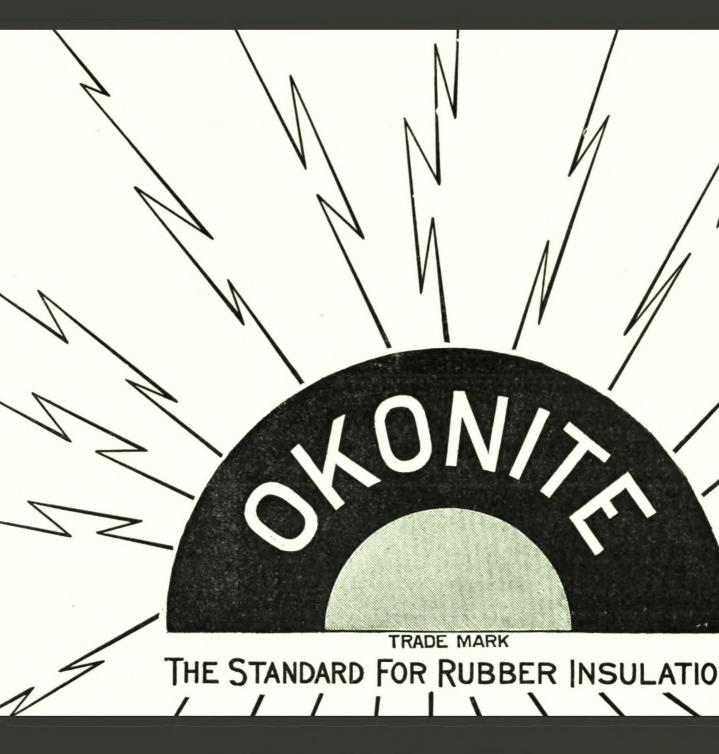
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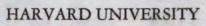
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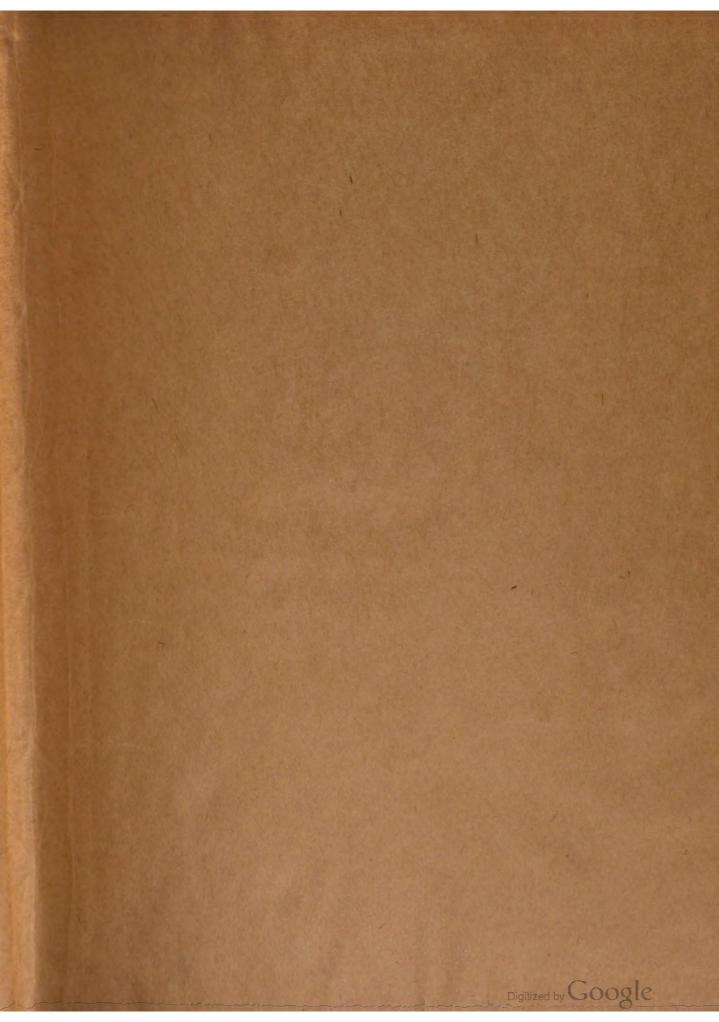


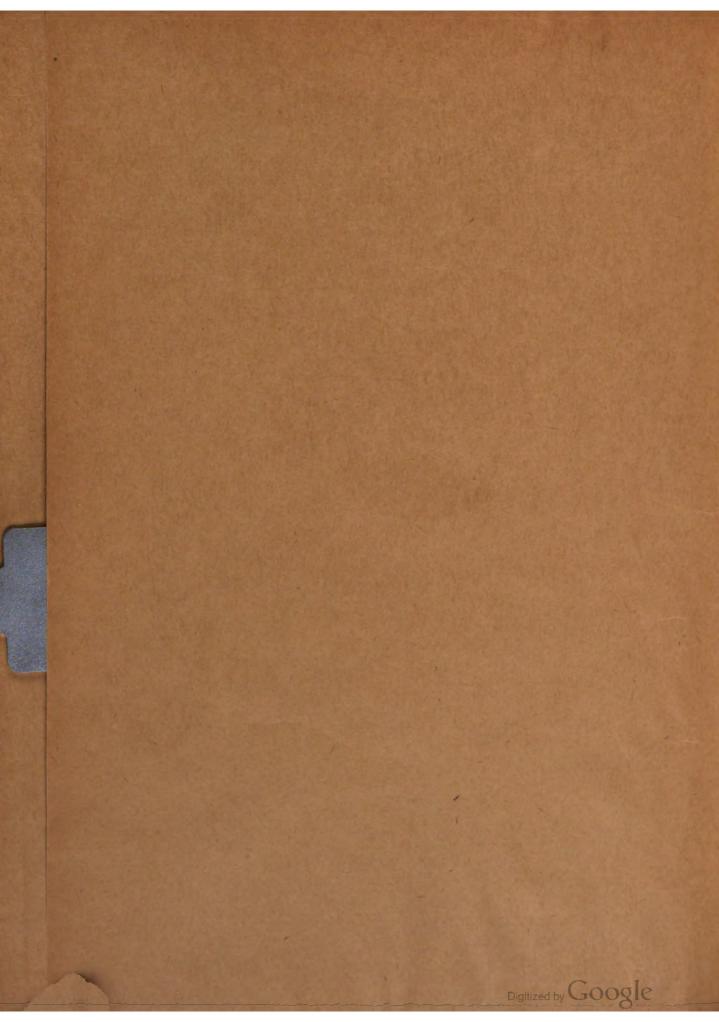
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TO

# Telegraph Age

# VOLUME XIX January 1 to December 16, 1902

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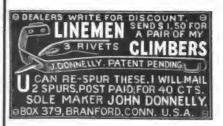
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FOR MORE THAN EIGHTEEN YEARS TELEGRAPH AGE has represented the great telegraphic interests of this country. During this long period, so eventful in the history and development of telegraphy, this paper has endeavored faithfully to advance the welfare of every individual connected with the telegraph. How well this has been appreciated is attested by the fact that thousands of names are still on its books of those who, having drifted into other callings, never have forgotten their former telegraphic experience, or ceased to cherish the friendships and associations then formed. For telegraphers are clannish, loyal to each other, and, we are pleased to say, eminently so to their single representative paper, and which, let it be said, has ever sought to be loyal to them.

THE DEPARTMENT OF CORRESPONDENCE, so long finding expression in the familiar and chatty pages by which members of the fraternity in all parts of the country are kept constantly and pleasantly informed of all changes and transfers, business and social events, marriages and deaths, occurring within their ranks, has proved to be of abiding interest to thousands everywhere.

THE TECHNICAL ARTICLES, highly instructive in character and conveying practical and muchneeded information on every phase of modern telegraphy, have won high commendation because
of their intelligence and the broad scope of the subjects brought under discussion. THEY HAVE BEEN
INVALUABLE TO THE ACTIVE OPERATOR AS A PRACTICAL AID IN HIS DAILY EMPLOYMENT. The series of articles
now being contributed by Willis H. Jones, to which attention is especially requested, are alone
worth more than the subscription price of the paper. Mr. Jones is a prominent New York wire
chief operator. His articles explain, in simple and easily understood language, the duplex, the
quadruplex (how to install and balance them), batteries, dynamo machinery, the condenser, galvanometer and electrical testing, switchboard testing, repeaters of all kinds, etc. All sorts of possible
combinations that the telegrapher is asked to solve are given painstaking and careful attention.

THE GENERAL SUBJECT OF TELEGRAPHY in its many aspects, its progress and development, in this and other countries, has been so treated as to present a vast fund of information. The bound volumes of TELEGRAPH AGE have come to be regarded as works of reference. They will increase in value as time goes by.

THE PROGRESSIVE CHARACTER of the paper itself is generally recognized, and its influence and high standing in all telegraphic and allied electrical circles is freely acknowledged.

CONDUCTED BY EXPERT TELEGRAPHERS, graduates themselves from the key, their training and sympathies put them in close touch with the conditions and needs of the craft still engaged in receiving and sending the dots and dashes.

THE SUBSTANTIAL ENCOURAGEMENT received in the past has already given TELEGRAPH AGE a wide circulation. And this has steadily grown. Yet the field is constantly expanding. Considering the variety, extent and character of the important matter the paper is now offering in all of its departments, so thoroughly meeting the requirements of up-to-date telegraphic information, technical and general, this journal should be an indispensable factor, not only in every telegraph office in the United States, Canada and Mexico, including those of the railroad, the police-telegraph and fire-alarm systems, but to every individual telegrapher as well. To the upbuilding of this larger circulation, the accomplishment of which means as much to the subscribers as to the publisher, because affording the guarantee of a still further improved paper, we ask the active co-operation of our friends everywhere.

TELEGRAPH AGE has always sought to exert a helpful influence to the fraternity collectively, and to the telegrapher as an individual. Now in turn, when it has mapped out for its future a larger, fuller and a more broadly comprehensive course, still ever keeping in view the advancement of the telegraphers' best interests, it appeals to its friends, to the members of the craft everywhere, to render the aid which they alone can give to make this subscription effort supremely successful.

THE PERSONAL CONSIDERATION OF TELEGRAPHERS is earnestly called to this statement, and their subscription and those of their office associates are solicited. Will the reader kindly call attention to this matter? A sample copy will be sent free to any address on application.

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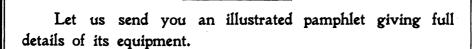


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## THE TELEGRAPH AGE.

No. 1.

NEW YORK, JANUARY 1, 1902.

Vol. XIX.

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#### SOME POINTS ON ELECTRICITY.

## The Equipment of a Modern Telegraph Office. (Continued.)

THE WIRING AND ARRANGEMENT OF APPARATUS.

BY WILLIS H. JONES.

[In a few months hence this series, together with the most valuable of the articles appertaining

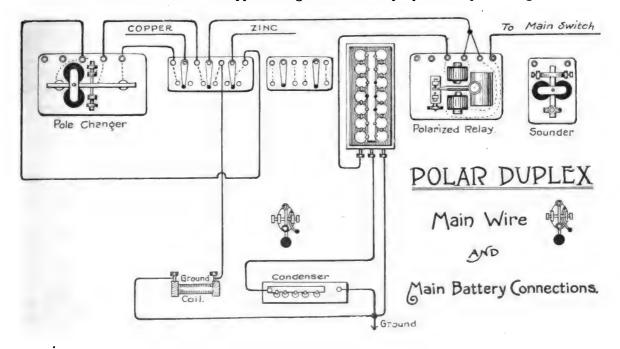
to the duplex, the quadruplex, storage battery and other telegraph matters, which have appeared in this journal during the past three years under the caption of "Some Points on Electricity," will be published, and the book substituted for "Pocket Editions of Diagrams," by Willis H. Jones. Those desiring a copy of the new book should send in their names at once.—Editor.]

Nothing causes more confusion and delay to the traffic in a telegraph office than a guidel.ss search for "trouble" in a set of instruments which has been wired without conformity to any prearranged plan. In a small office where a few instruments are installed by one man he may possibly remember just where each connection is made, but in large offices the chief operators in charge are not usually the men who actually did the wiring, hence a systematic method of arranging the apparatus and connections is not only advisable, but really necessary. Each separate apparatus should occupy an identical location on or under the desks. The manner in which single line relays and sounders are arranged has already been shown.

We will now proceed to arrange the multiplex apparatus according to the latest and most approved method.

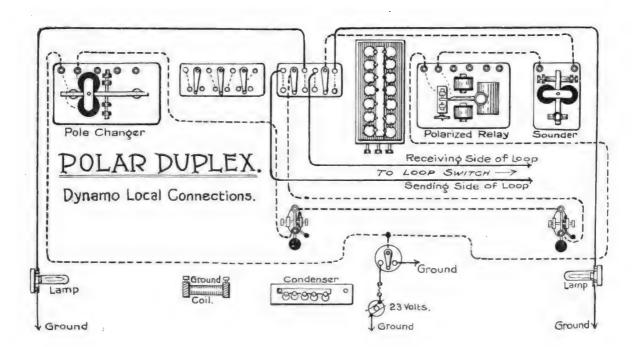
The first and second diagrams show the actual binding post connections of a polar duplex operated by a dynamo current, with every instrument, switch, wire and other accessory in their proper position on the desk.

For the purpose of preventing confusion in



tracing the desk wires from one point to another, cut and the main wires in the second. The two cuts make an ideal "blue print" for linemen, and

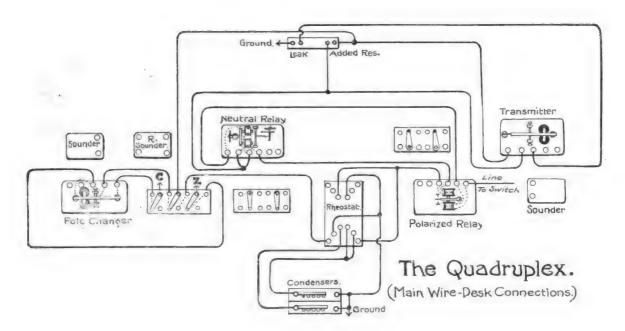
The resistance of the ground coil for duplex apwe have omitted the local connections in the first paratus should be just the same as that of the main line battery lamps at the home station, usually two ohms per volt employed. The third and fourth



anyone with ordinary intelligence should be able to set up a duplex without other suggestions than are contained therein.

All the apparatus shown are placed on top of

cuts in like manner show the main wire and local desk connections of the quadruplex apparatus sep-The local connections are practically arately. the same as those of the duplex, with the excep-



the desk except the lamp resistance, the ground coil, condensers, and the round base, three-point battery switch, which should be placed at convenient points underneath the table.

tion of what is necessary to add a repeating sounder to the neutral side. As the diagrams speak for themselves, there is but little further information necessary.

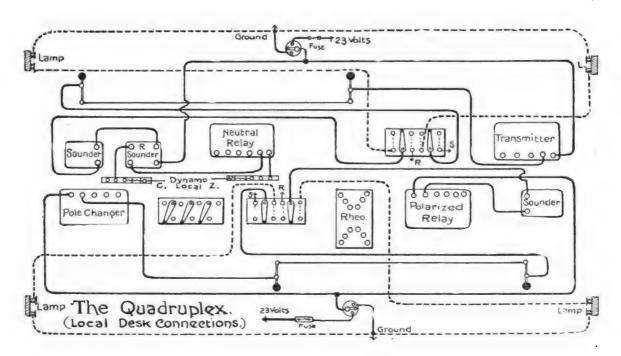


Where resonators with flexible cords are connected to binding posts screwed into the top of the desk, as is usually the case, the two posts should be placed near the front partition, one behind the other, as viewed by the operator seated in his chair, and not side by side. They are thus arranged in order that the circular metal base of the resonator stand cannot possibly touch the two at once and thereby "cut out" the sounder.

The resistance of the ground coil for quadruplex apparatus should always be exactly 600 ohms, where the dynamo arrangement of "leak box" and "added resistance" obtains, regardless of the elec-

the profession, of which he was once a member, for all time. My plan, in brief, is simply to return to an old time charity—buy a worthy workman his tools.

Throughout the country to-day it is almost absolutely necessary for an operator to provide himself with a typewriter, and if he be of forethought, a key which will prevent lost grip and telegrapher's paralysis, ailments which, in more or less degree and sooner or later, attack every operator. These instruments are in the open market. Typewriters of all makes to relieve the penman from writer's cramp, and the Twentieth Century key, which will



tromotive force or length of the circuit, because the joint resistance of those coils offer exactly 600 ohms resistance to the incoming current with our transmitter open, and we must maintain that value when we "ground" for the distant station, so that when we "cut in" again we will not add to or detract from the value of his line balance.

(To be continued.)

### Business Notice.

"I see you've got an operator at Brownville now that can send, Mr. Train Dispatcher." "Oh, no; it's the same old operator—he bought a 20th Century Telegraph Key!" Address Foote Pierson & Co., 82-84 Fulton street, New York.

#### The Carnegie Proposition.

Editor Telegraph Age:

Relative to the recent articles in your journal asking suggestions as to the best manner in which Mr. Andrew Carnegie could aid the telegraphists of the United States, permit me to suggest a plan, which, in my humble opinion, were it put into practice, would endear that great philanthropist to

enable a victim of lost grip to transmit dots and dashes, which he could not do on the regulation key, and which will prevent paralysis. But these instruments cost money; the companies will not buy them, and while many operators purchase them on the instalment plan at the highest figure, many are not able to buy them at all and struggle along as best they may.

It has been said that the most noble form of charity is to help a man to help himself. What better plan than this—buy a worthy workman his tools.

I am sure that if Mr. Carnegie would divert a sum of money to this purpose the results would be most gratifying. The purchases could be made under the supervision of local managers and the individual benefited would be in a position to at once demonstrate the value of the gift.

Very respectfully,

JAMES P. WILLIAMS.

New York, December 23, 1901.

Shade of Benj. Franklin to Signor Marconi: "Hello, Marc., I believe I've seen that kite arrangement of yours before."

#### Telegraphers, Rhymsters and Poets.

A correspondent, who was evidently a reader of my versified narrative of "Pat and the Anarchists," has written me over a nom de telegraphique (X), and asks if I can explain why so many telegraphers are moved to write rhymes. "Scarcely a telegraph office," he adds, "but shelters a poet. How do you account for it?" He (or she) also suggests that I deal with the subject in Telegraph Age.

I am not an authority on such matters—let that be distinctly understood—but since I received X's letter I have turned the query over in my mind, and I think it reasonably can be claimed that the environment of a telegrapher is conducive to rhythmic outpourings, or even poetry in its truer sense. Between these two classes of writing there is a wide difference. The poet of occasion and the bard of inspiration are not in the same class. "But (as Kipling says) that's another story," and not necessary to the development of my theory.

Rhythm is abundant all about the telegrapher. It permeates the atmosphere of his daily labor. He hears it in the hum of the telegraph wires after his day's labor is done. It appertains to the "tools

of his trade," so to speak.

To the uninitiated the ticking of a single telegraph instrument or the clatter of a number of them in unison is discord—noise, pure and simple. But this sound falls upon the trained ear of the telegrapher in an altogether different manner. The combination of dots, dashes and spaces blend together in a harmony which varies in degree, according to the quality of expertness attained and exhibited by the "sender." "Good Morse" is musical even. It is soothing to the nerves. There is a rhythm and a metrical exactness about it that lends to it an almost poetical grace. It is a truism that the man or woman with "an ear for music" makes the best telegrapher; and as music and rhythm and poetry are closely allied, there is nothing surprising to my mind in the fact that among the thousands of expert telegraphers all over the country, there should be a rather large percentage of those whose sense of rhythm finds expression in verse-making.

But just as there are poor musicians and poor telegraphers, so, too, there are poor verse-makers and poets, even though they be telegraphers as well. There are rhymes without rhythm, and so-called poems without many, if any, traces of poetry, just as there is "bad Morse" of the jerky and unspaced order. But it is sometimes hard to make a poor telegrapher, a poor musician or a poor verse-maker realize the fact that he offends. In each case the "poor one" has probably missed his calling. But how few of them admit it!

ing. But how few of them admit it!

Anybody can become a "plug," just as anyone can become a nuisance to his neighbor by thumping a piano, or just as anyone can make jerky, inelegant sentences rhyme. But the good operator, the good musician and the good rhymster must have some inward qualities behind the mechanical touch, even though it be deft, as applied to the telegraph key, a musical instrument, or the pen.

So much for the purely rhythmical aspect of my

theory. And now for the poetical aspect.

The poet of nature goes to wind-tossed forests; to fragrant flowers, diffusing their perfume on the summer's balmy breeze; he goes to the babbling brooks; to the music of the song birds; to—in short, all of the idyllic conditions which move his heart to inspiration. There is the poet of bloody war, the poet of peace and civilization, the poet of the heroic and of the pastoral; of Love (and his name is legion) and of hate (for some poets are spiteful).

As Byron satirically put it:

"Behold! in various throngs the scribbling crew For notice eager, pass in long review."

And all these have their theme.

Then why not a Poet of the Telegraph—not a mere rhymer, or writer of jingling verse, but a real poet?

The inspiration lies ready at hand, and it is mag-

nificent, mysterious and awe-inspiring.

Let some telegrapher arise and do it justice.

Consider the subtle force that produces the rhythmic ticking of dots and dashes; consider, too, the continents traversed in the twinkling of an eye by the same subtle agency, as it carries across their broad stretches the messages of mankind. Consider the oceans likewise spanned. Consider time annihilated. Or imagine—as a poet has the right to imagine—all the clicking instruments in the universe blended into a thundering chorus for the purpose of acclaiming the great deeds which the electric telegraph has done for humanity. And, finally, consider the marvelous mystery which surrounds the vital and potent electric flash, whether it be harnessed for the purposes of mankind, or unloosed, high in the heavens, to hurl at affrighted Earth the thunderbolts of Jove.

Let X dwell upon this and he must surely ask, as I have asked, "Why not a Poet of the Tele-

graph, or a dozen of them?"

And let X no longer wonder that telegraphers make rhymes, feel constrained to mount Pegasus, or plume their wings to poetic flights—even if editors, at times, are unsympathetic and refuse to publish their verses.

Brenton A. Macnab.

#### Telegraph Breakdown in England.

The effect of the recent big storm in England, which practically severed all telegraphic communication between the southern and northern portions of that country, has been to revive agitation for the completion of an underground service to all the great centers. The great advantages of the underground wires to Birmingham were never more clearly demonstrated, as that city was the only one in full communication with London for two days.

It is estimated that the storm cost the country \$5,000,000.

It is well to think well; it is divine to act well.—Horace Mann.

No up-to-date telegrapher can afford to be without Telegraph Age. Send for a sample copy.



#### A Case for Inquiry in the British Post Office.

The September number of the Westminster Review (England) contains the following interesting article by Charles H. Garland, one of the foremost telegraph writers and expert operators in England:

The traveler in Rome is met with the following aphoristic comment on the absence of marble in the Coliseum: "What the Barbarians left the Barberinis took." It may be some distant echo of this aphorism which has led to the current saying in the post office on the causes of mortality among the employees. The generalized experience is summed up in the following grim sentence: "What consumption leaves the madhouse takes." This is perhaps not literally true, but it is a clear popular expression of the prevailing impression among the employees of the lower grades of the indoor postal service. Among the large bodies of sorters and telegraphers there is an ineradicable belief that consumption claims an abnormal tribute of lives, and among the telegraphers there is an equally deeply-rooted belief that their work is productive of mental disease in all its forms, from the more severe and pronounced types which find treatment in an asylum to those less serious cases which result in an amiable softness or express themselves in abnormal craving for alcohol. Nor are these beliefs confined to English postal employees alone. They are equally prevalent in the Continental countries. At the International Congress of Telegraphers held in Como in June, 1899, this became especially obvious. Delegates from Italy, France, England, Switzerland, and Austria made frequent references to the widespread belief, and their references were of such a character as to point to an underlying assumption of this as an incontrovert-

Up to the present the science of statistics has furnished no complete data by which these beliefs can be accurately tested. But it nevertheless remains a most remarkable fact that such a universal belief should exist, and it would be still more remarkable should it turn out to be unwarranted. The electrical condition of the atmosphere is known to affect abnormally nervous persons, hysterical subjects and the like, producing changes which result in depression or excitement. But no detailed investigation exists upon the influence of an electrically charged atmosphere upon normal persons. Dr. Damian, a French scientist, and Dr. Charles Feré, a physician of the Bicetre Hospital, have both separately studied the subject of the influence of the electrical condition of the surrounding air upon their subjects, and there is every reason to believe that very protound nervous effects result from changes in electrical tension. Dr. Arlidge, who died recently, collected together a considerable mass of information and published it in a treatise on the "Disease of Occupations." His book became a classic, and undoubtedly led to the reduction of the mortality of most dangerous trades. In a letter dated April 9, 1896, he tells me: "I had hoped to get some returns of the longevity, the health, and prevalent

maladies, especially of those constantly engaged in connection with electrical agencies and instruments. . . . I wrote to the officers of the Central Office, and was curtly told that it was contrary to the rule of the department to give information respecting the employees. Why it should be so I have never comprehended."

Far be it from me to assert that the electrically charged atmosphere is the chief or only cause of the insanity of telegraphers. I believe it to rest rather in other conditions of his work, chief of which is its monotony. I was discussing this question one day with a celebrated French electrician, and he said to me, "Imagine a man repeatedly writing or sending such phrases as 'Expect me at 6.30,' 'Shall be late to-night,' hundreds of times per day for years on end! Is it not enough to drive any man mad?" This is a very fair description of the mass of the telegraphers' work, and I am inclined to agree with the French expert.

Despite the refusal of official evidence on so important a subject it is still possible to get some figures, and these point wholly to the justification of the belief of the employees. If better statistics prove the contrary, which I doubt, it is obviously the duty of the postal authorities to produce them, and thus kill this bogey of the telegraph operator. An endeavor was made to kill the consumption bogey, which failed, and it remains incontrovertibly established that both in England and France hundreds of postal employees die of preventible pulmonary disease.\*

Let us look at the justificatory evidence for this widespread belief of the telegraphers. In 1885 and 1886 particulars were given in the post office estimates of the causes of retirement among telegraphers. They showed in 1885 that of a total of thirty-two pensions granted twenty, or 62.5 per following year the same heavy percentage was shown. There were in 1886 thirty-four cases of pensions, of which eighteen, or 52.9 per cent., were of nervous complaints. The remainder were mainly respiratory complaints. These figures immediately attracted the attention of the medical papers in England and America, the Lancet being especially strong in its comments. The postal department shielded itself by discontinuing the publication of the details! But no inquiry was made, such as M. Millerand has recently instituted concerning consumption and its ravages among the French postal employees.

The postal service has an insurance association known by an official misnomer as the United Kingdom Postal and Telegraph Service Benevolent Association. It is in every respect an insurance association, and as all postal lives are carefully selected lives, in consequence of the medical entry examinations, all members of this society are selected lives. Pick up its reports haphazard and we immediately see the justification for the belief that consumption and the madhouse take all

<sup>\*</sup>Vide my paper, "Consumption in the Post Office," read before the British Congress on Tuberculosis on July 24, 1901.

the lives. I pick up the report for 1895. Forty-seven telegraph deaths are recorded, of which nine are from nervous disease and 32 from pulmonary disease. The last report for 1900 shows a total of thirty-seven telegraph deaths, of which two are suicides, six from nervous disease, and nineteen from respiratory disease.

Such a condition is indicated each year by the reports of the society. The official figures, published in the Postmaster-General's report for the last few years, confirm the unofficial figures for consumption. It certainly behooves the postal department to publish well-classified and detailed statistics on the nervous and other complaints of telegraphers.—London Telegraph Chronicle.

## Line Construction in the Kiondike. BY GORDON SM.TH.

When the linemen who are looking it up locate "the trouble" on the Klondike telegraph line it is not unlikely that it will be found that somewhere up in the north on some out of the way Indian rancherie they will find a piece cut from the wire which the untutored Siwash needed to mend his fence, or make a guy line for a tottering totem. The Indian does not take kindly to "the medicine wire" which has been stretched over his illahees in the forests of the north. When the line was being built the construction parties had several experi-

ences of this antipathy, and the shocks adminis-

tered to those who clutched the strange medicine

wire which went from pole to pole did not increase their liking

their liking. It was soon after they started from Telegraph Creek that the telegraph men first encountered the Siwash in numbers opposed to the line. They were about twelve miles out from the Stikine head stringing the wire through the village of the Tahltans there, when the Indians crowded around them and tried to prevent the stringing of the wire. Numbers clutched the wire as it lay on the ground and tugged it from the linemen on the poles. They could not be made to let go, until one of the operators started the current along the wire—and then the wire became known as "the medicine wire." The Indians dropped it with a howl, and there was a great "wa-wa." They could not understand the strange properties of this wire, and it looked as though there would be trouble when the construction superintendents explained through an inter-preter what the line was for. Then some of the Indians were induced to take light shocks, and gradually a knowledge of the first rudiments of electricity came to the people of Tahltan, and one man, who could stand the thrills of the current longer than his fellows earned renown as a sha-

man. Such are the superstitions of the Indians. At New Kitselass on the Skeena river where the wire was strung over the village of some of the Skeena river Indians there was a great to do. The Indians tore the wire down, stamped on it, and threatened that as soon as their chief came home from the Naas where he was fishing they would soon make short work of the wire. The line was

strung over the totems of the Siwash graveyard, and this was the main grievance, this and the superstitious dread of the wire which had made one of the barefooted ones jump when he suddenly trod upon it as it lay "alive" on the ground.

When the superintendents and the construction men continued to carry on the work and strung the line over the illahees on the Skeena's banks the Indians formed in a circle and held a great powwow, at the end of which they ran in a body to the line intending to demolish it there and then, but a current being placed on the wire, there were yells and shrieks as soon as they grasped it—and the

linemen prevailed.

At Kitgegalum on the Skeena a potlatch was in progress when the linemen reached the village with the wire, the occasion of jollity being the raising of a new totem. The Indians were dancing when the men arrived with the wire, and the Indian curiosity overcame the love of ceremony. The potlatch was abandoned to protest against the starne wire being spread from post to post. The missionary resident there satisfactorily explained the workings of the wire to the Indians and trouble was averted there. At a number of rancheries there were objections by the Indians to "the medicine wire," and there were incidents galore where the shock which followed contact with the wire brought yells of terror and wonderment from the Indians.

Up on the line from Telegraph Creek the Indians looted two of the store cabins of the telegraph men and including in the stolen goods, which included flour and provisions of all kinds, was a telegraph instrument which was perhaps taken to set a new medicine man up in business to foster

superstition among his fellows.

Several traces of the old Western Union wire built in days long ago were discovered by the line builders, and six miles south of Iskoot summit the line builders went right through the old company's right of way. Traces of the old wire were found on many Indian fences and many pieces which had been carried away by the Indians for various purposes were found.—Seattle Times.

#### A Mexican Cable.

Consul Canada, of Vera Cruz, Mexico, reports that the Mexican Government has contracted with a New York cable manufacturing concern for a submarine cable to be laid between Vera Cruz, Frontera, and Campeche. The cable is to be 472 nautical miles long. It is to be made of nine copper wires, protected by sixteen galvanized iron wires for the deep sea and eighteen additional steel wires for the coast. The manufacture of the cable will be under the supervision of the Mexican Government. The company furnishing the cable is to receive for the work \$600,000 gold, of which \$283,000 is to be paid when the cable is placed in service and the balance in two and four months thereafter. The cable must be ready for service on April 2, 1902.

You can't afford to be without Telegraph Age.



#### The First Telegraph Lines in Texas.

D. P. Shepherd, of Houston, Texas, contributes the following interesting recollections of the events incident to the first establishment of telegraph service in the Lone Star State in ante-bellum days:

The first telegraph line in Texas, built chiefly with Galveston and Houston capital, was from Galveston through the broad prairie, without reference to any road, railroad or other, as there was none, to Houston. Thence by wagon road to Huntsville, thence to Palestine, Rusk, Henderson, Marshall and Shreveport; thence, I think, via Alexandria, crossing the Mississippi at Natchez, there connecting with the primitive system in operation east of that great waterway.

The chief actors in this work were T. C. H. Smith, a telegrapher of that day of prominence; C. A. Burton, a long time engineer, conductor and superintendent on the Houston and Texas Central Railway before and after the war, and afterward superintendent of the Texas and New Orleans road; Mr. L. K. Preston, an old ante-bellum citizen of Houston, and, I think, the venerable city treasurer of Houston was also connected with this work. He was a telegrapher in his native country, Hungary, too long ago to talk about.

To support a telegraph line plenty of people and consequent large business centers are essential, but this line, 600 or 700 miles long, running through a wilderness, with stations in comparative villages, had nothing to support it but its frail sap poles, and for want of a little stimulating financial influence the wire went down of its own dead weight in quite a short time. Few dispatches reached their eastern destination from Galveston and Houston over this line.

In 1859 the lamented E. H. Cushing, proprietor of the Houston Telegraph (newspaper); Col. A. M. Gentry, who built the Texas and New Orleans railroad from Houston to Orange; Dr. I. S. Roberts, who first projected the Western Narrow Gauge road to what is now Sealy, west of the Brazos, and other citizens of Houston, and, if I mistake not, also The Galveston News, organized a new company with C. C. Clute, a practical telegrapher, to execute their will and resuscitated, as it were, that part of the line between Galveston and Houston, by raking together the scattered fragments of the defunct line of 1853 and patched up a frail thing that answered fairly well, all things considered, the purposes of a telegraph line between the then two most important commercial points in the state.

This line, being only fifty miles long and otherwise favorably situated, "did well," financially speaking. It continued to do good service until the close of the war, at which time Mr. Davis—I regret I have forgotten his initials—was its superintendent. Mr. Clark and Messrs. E. and Mose Raphael, now prosperous and prominent men of this city, were among its operators.

Some time during the war the company extended its line east over the Texas and New Orleans railroad to Beaumont, 80 miles from Houston, with some of the old style three-ply black wire. This portion of the line distinguished itself

by doing very inefficient service. Constructed of poor material and in a very cheap manner, and like our line of 1853, having little or no business to stiffen its backbone, it soon crumbled. The objective point of this line was to New Iberia, La., where it was to connect with a line built in 1861-62 by your humble servant for the New Orleans, Orange and Great Western Railroad Company and for the military authorities at New Orleans to aid in the defense of that city.

I would fain avoid referring to "the writer" myself so frequently, but there is no other way out of it by the nature of things. In 1863 I had my headquarters at Monroe, La., whither I had been dispatched by General Superintendent Van Horne of the Southwestern Telegraph Company in contemplation of being cut off by the impending blockade of Vicksburg by the federal fleet. Much of my time was within the sound of "Whistling Dick" and the deep-mouthed, thundering voice of other heavy, booming artillery at that military strongpoint. Mr. L. C. Baker, superintendent of the Arkansas State Telegraph Company, with headquarters at Little Rock, began to understand simultaneously with myself that a dignified, if possible, retreat out of Arkansas and Louisiana would have to be undertaken without delay.

My orders were when I was sent to the trans-Mississippi to push the extension of the southwestern lines to Camden, Ark., in co-operation with the military. Failing in this by reason of natural or other obstacles I was to push the extension toward Shreveport and into Texas.

Texas was a much coveted objective point by Mr. Baker and his company. So that when the retreat began it was "on to Shreveport," and as our late honored superintendent, Mr. Baker, was more fleet of foot and perhaps worse scared, he got the start out of Arkansas ahead of me and was the first to land at the goal.

When the retreat began both companies, with the indispensable aid of the Confederate military, had to pull down, reel up and haul on wagons the wire from those parts into Texas. The extension from Shreveport, the headquarters of Gen. E. Kirby Smith, commander of the trans-Mississippi department, was to the most important point to be reached, that is, the headquarters of the district commander, Gen. J. B. Magruder, and afterward Gen. J. G. Walker. Neither company had wire enough to span the entire distance. Mr. Baker having won the go, started his line at Shreveport and ran to Crockett via Marshall, Henderson and Rusk. The Southwestern company, beginning at Crockett, ran to Huntsville and thence to Navasota, where it reached the railroad, thence on that road to Houston. Many hardships and difficulties attended this work, as it followed a serpentine stage road, through dense wood, and with no end to the lack of facilities and conveniences incident to a wild, unsettled country and war times. Trees were bracketed and poles used where necessary.

At Crockett the terminal operator on the Arkansas state line was Mr. G. M. Baker, the present manager of the Dallas office, if I remember cor-

rectly—quite a difference between that and the ponderosity and altitudinosity of his present position.

On the forward end of the Southwestern line I think was Mr. F. V. Daniel, who was afterward the manager of the Galveston office when it had come into the possession of the Southwestern company. On the Houston end was the lamented Harris (initials forgotten), who acted as foreman of construction during the building of the line. Being a first-class operator, he had earned that coveted position and filled it ably and satisfactorily. He had the yellow fever in Houston in 1864, and though recovered sufficiently to come out, did so prematurely, took a relapse and died. Peace to his ashes. I'll never forget his plaintive song while "on the work," "When the Ivy and the

Myrtle Were in Bloom." This work completed, "having conquered the world," new worlds were sought to conquer. San Antonio was the next most important point, both from a military and commercial point of view. It was really of immense importance. Through that gateway from Mexico came immense stores of goods, military and other, overland by wagon. Goods came into Mexico at Bagdad and crossed the Rio Grande, and then over that seemingly endless road by wagon, reached San Antonio, thence to Houston and other points. The military began to clamor for a telegraph line and offered generous assistance. The Southwestern company undertook to do the work with the limited means at its command, together with private aid in the way of a partnership interest, money enough was raised and the work begun. By this time an operator, whose initials I have forgotten, named Osborne, with G. W. Carter, "the fighting parson," a man of transcendent talent, who was a very important adjunct in Washington just after the war, and whom it was said wrote many of the important papers for less gifted officials, at his back, essayed the construction of this line. It became another struggle as to who should find favor with the military and who should get the bulge in this important and eventually profitable undertaking. Materials were not to be had in Texas, nor anywhere else short of Europe, through Mexico. Mr. Osborne went to Mexico to arrange for wire. In the meantime the Southwestern company set the poles, bracketed what few trees there were and had everything ready for the wire, which had been ordered.

About this time, the spring of 1865, the work having been begun in the fall of 1864, the news came that that ineffable military genius and hero of scores of battles at great odds, Gen. Lee, had delivered up his sword to Gen. Grant. Of course the work was suspended, as in fact, it was completed as far as practicable at that time.

#### (To be continued.)

Labor to keep alive in your breast that little spark of celestial fire called conscience.—Washington.

#### A Quick Recognition.

It is as curious as it is true that hardly two operators finger the key alike, remarked the late A. H. Seymour, and on the wire are readily recognized by their working associates before they give a signal or finish the first word. This characteristic is so marked that the recognition is just as quick if one hears the same hand after a lapse of a year or more and on an entirely different circuit. This fact led to many thrilling and amusing incidents on the military telegraph wires during the Civil war on both sides of the line. In 1863, it will be remembered, the Confederates invaded southeastern Pennsylvania and for some days held the territory around Chambersburg. A well-known operator attached to Gen. Lee's staff cut into one after another of the wires running through that section connecting Philadelphia and Pittsburg, lying in wait for messages that might give some information as to the movements of Union troops. Knowing that some able and daring operators were at Lee's headquarters our office was on guard continually, and while the Confederates were in that section all important Government messages were sent over another route. Every day we were aware of their presence by the action of the current, when they came and when they went. A day or two before Gettysburg, Lee's operator, getting desperate, cut off the west, tried to disguise his writing and using the signal of an office further west called up Philadelphia and in a conversational way asked the prospects of a battle, etc. The Philadelphia operator who answered his call said immediately in reply: "Hello, Jack—, is that you?" Hesitating a moment the latter answered, "Yes," and after a brief chat about old times the rebel operator abruptly quit and got out. It was learned afterwards that Gen. Lee had obtained all the information he wanted and more, too, from another source and rapidly changed his base. The Philadelphia man had worked with the "Johnny Red" on a southern circuit some years before.

## War Telegrams Seil High.

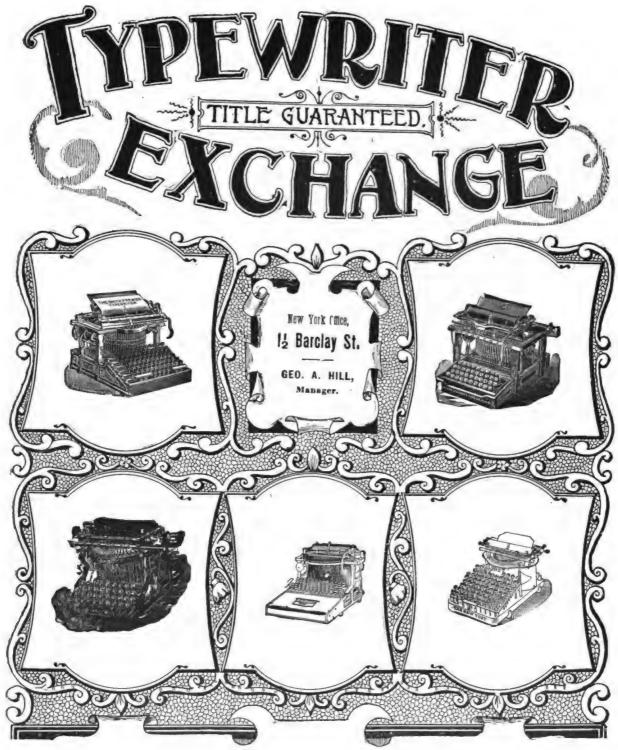
The original of Gen. Grant's telegram to Secretary Stanton announcing in Grant's own handwriting the surrender of Gen. Lee was sold in New York city for \$760 recently. It was among the literary possessions of the late Gen. Adam Badeau, military secretary to Grant. The despatch is written in Badeau's field orderly book and, although in lead pencil, has been so carefully preserved that the writing is as legible as when Grant wrote it thirty-six years ago.

The original of Lincoln's telegram to Grant on April 7, 1865: "Gen. Sheridan says: 'If the thing is pressed I think that Lee will surrender.' Let the

thing be pressed," was also sold.

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## NEW YORK, January 1, 1902.

Note.—We desire to state that back numbers of this paper, those issued more than six months prior to any current date, will be charged for at the rate of twenty-five cents apiece when they can be furnished. This price is fixed because of the necessarily limited stock we carry, and of the difficulty we commonly have in filling an order. Oftentimes the request is for papers of a more or less remote date, with the expectancy of being supplied at but ten cents a copy, whereas in order to obtain the desired issue we are ourselves frequently obliged to pay the larger sum, or even more. The growing value of complete files of Telegraph Age should cause our readers to carefully preserve their issues.

THE ROBERSON QUADRUPLEX.—The Roberson Quadruplex System, which has been recently adopted by the Western Union Telegraph Company, and which will be put into extensive use throughout that system, was illustrated and described in our issues of March 16 and April 1 of this year. Those who desire copies of these issues can obtain the same at 10 cents apiece. As there are only a few of these numbers left, we would urge those who wish to become posted on this new system to procure copies before they are entirely out of print.

#### The Pension Fund Proposition.

The question of establishing a pension fund for the benefit of aged and infirm or disabled telegraphers, first referred to in this journal in its issue of November 16, in furtherance of which the name and probable co-operation of Mr. Carnegie has been closely associated, has attracted wide attention and excited considerable discussion, as our correspondence columns bear witness. Yet at the same time there appears to be a rather misty and indefinite idea entertained on the part of many concerning the proposition and its plan and scope. For while the average member of the fraternity seems to favor the suggestion of a pension fund per se, the impression held regarding its true functions, together with the belief that the individual would forfeit all money paid in if for any reason he became unable to continue his payments, or in the event of retirement from the telegraph service, causes many to reject the plan altogether as one offering no attractions.

In the first place Mr. Carnegie has only promised the payment of a substantial sum as a nucleus for a pension fund. To follow out his plan it is incumbent upon those who might wish to participate in the benefits of a pension fund to contribute thereto during their earlier and younger years in order to secure the guarantee of return payments when old age and decrepitude shall render them incapable of work. A fund of this character, it should be borne in mind, is different from that of a mutual aid society, or any plan of benefit insurance. When a person contributes to the latter he immediately begins to receive an equivalent in return, even though he later permits his insurance to lapse. This is not the case with a pension fund. A man may pay regularly into such a fund for ten, twenty or thirty years, as the case may be, and if at the end of any period his membership lapses for any reason, the return of the amount he has already paid in is liable to be disputed, although its repayment cannot be, perhaps legally and certainly not justly, withheld, for he has received no equivalent for his money. In the State of New York, and possibly in other states, the retention of such money payments is illegal. Yet the fact that the question is raised, and it is possible that the individual may lose his money under certain unfortunate conditions, makes such a form of investment providing against old age an unattractive one. And this very reason has within the past month caused the employees of the Michigan Central and of the Chicago, Milwaukee and St. Paul railroads to vote down similar pension schemes.

The railroad companies which have inaugurated pension fund systems, recognized the facts we have here recited, and consequently decided to make their pension funds wholly corporation affairs, the funds being maintained and the pensions paid out of money set aside for the purpose, employees not being called upon to contribute, at least directly, a single dollar for its support. This action was deemed not only just to faithful employees, but wise in its execution, inasmuch as it avoided all friction and maintained a proper control of the fund, restraining its workings strictly within the circle of employees for whom its benefits were intended.

The adoption of a pension fund system, then, as a measure of relief to telegraphers, as a distinctive body, is attendant with serious objections, and we believe that its presentment to be not only ill advised, but, as will be seen upon reflection, impracticable.

It is no doubt a fact that the railroad com-

panies, for instance, as it has been said, are gainers by the workings of a pension fund system exercised in behalf of their employees, because the latter realize fully that they will be taken care of after they have spent the most useful years of their lives in the railroad service. With telegraph companies, however, apparently no pension scheme has as yet been presented which appeals to them with sufficient force to cause any corporate action to be taken.

It will be well, therefore, to assume that the telegraph employees themselves must establish a pension fund if they wish one, regardless of any aid that the companies might extend to them.

Now, if Mr. Carnegie is disposed to aid the telegraphic fraternity, and we have assurances that this is his intention, in our opinion, the best way to confer benefit on all telegraphers would be for him to turn over to a trust company, or a board of trustees, made up of telegraph people, such a sum as he wishes to present to his old associates, that sum to be placed at interest, the increment of which to be distributed among the various telegraph, insurance and beneficial organizations already established. If, for instance, the Telegraphers' Mutual Benefit Association received a sufficient sum to warrant it in reducing its number of assessments each year, its five thousand members would each receive a direct benefit. The Gold and Stock Life Insurance Association, with its membership of one thousand, and the numerous aid societies throughout the country, with their local facilities which reach every member of the craft, would also be benefited proportionately, according to the amount available; thus every member of the telegraphic profession in the United States and Canada would derive some direct benefit of Mr. Carnegie's fund. The individual operators would not have to contribute to the fund, but they would continue to receive their share in it for all time to come.

This plan, which is briefly outlined, is feasible and simple and would meet apparently the desires of Mr. Carnegie, who wishes to do something that shall be of practical aid to all telegraph operators, large numbers of whom are already members of the various insurance and aid societies. The doors of these organizations are not closed to those who so far have not availed themselves of the benefit of these institutions. Of course the Carnegie fund would have to be made available only to telegraph, insurance and aid societies, and thus be kept within prescribed limitations.

#### Marconi's Motto is, "Time Is Everything."

"I cannot remain idle. Ever since I was a child. I have had this feeling. Time means everything. If you cannot do a thing here do it elsewhere. An hour saved is an hour gained, and in that hour gained may be accomplished the one thing you have been striving for."

He is not only idle who does nothing, but he is idle who might be better employed.—Socrates.

#### A Testimonial to the Late M. H. Redding.

A handsomely engraved set of resolutions, appearing on a scroll, artistic in design and bordered with oak and laurel leaves, on the death of M. H. Redding, has been prepared, and for a few days was on view at the Western Union Cable office, 46 Broad street, New York, of which Mr. Redding was the late superintendent. The text is as fol-"The managers of branch Western Union telegraph offices in the down town New York city district, in meeting assembled, on November 18, 1901, adopted the following preamble and resolu-Whereas, in his infinite wisdom the Almighty has seen fit to remove from our midst Michael H. Redding, assistant superintendent of the Western Union Telegraph Company; and, whereas, by his energy, perseverance and zeal he gained the implicit confidence of his superior officers; and, whereas, his fairness and consideration and manifest desire to assist the employees under his jurisdiction, endeared him to those having official relations with him; therefore, be it, resolved, that the branch office managers give expression at this time to their keen sorrow at his death, their regret at the loss of so able an official, so just a chief and kind a friend, and extend their deepest sympathy to those near and dear to him; and it is further, resolved, that these resolutions be engrossed and be presented to the bereaved family. Signed by:

"Misses Amelia M. Prime, Kate F. Kelly, Mary A. Fitzpatrick, Laura E. Hennessey, Hattie E. Brown, Julia L. Schrikker, Kate M. Kinnier, Mary E. Saunders, Nellie A. Scully, Mary T. Hopkins, Nellie F. Swords and Mrs. Elise R. Kemp. Messrs. P. J. Tierney, A. H. Swanwick, R. F. Murphy, B. H. Reynolds, W. J. Austin, R. G. Wilson, R. Tomes, W. P. Scully, Frederick Simmonds, J. W. Heermance, T. C. Eipper, P. F. Sullivan, J. R. Kirchner, H. Holland, P. K. Donohue, E. C. Thackeray, Geo. F. Lane, G. Knittel, J. J. McCabe, J. T. Carberry, T. F. Stern, H. H. Atwater, J. B. Korndorfer, John Simmonds, J. W. Wood, W. A. Schutt, F. H. McDonald, W. S. Mack, J. J. Costello, W. B.

Coleman, F. A. Karl and A. Neilson."

Eastern seaside resorts have been famous this year by extraordinary entertainments, pig races, Wild-West improvisos and other extravagancies. But society at one of these places of heretofore unblushing repute literally had an eye put out when a receiving operator hit the letter "u" instead of "i" and made a paragraph announce that one of the wealthiest lady entertainers of the summer colony was going to give a "bug demonstration" at her villa on a certain night.

"No; the editors are not in," said the janitor to the early morning caller; "can I do anything for you?"

"Yes; I empty the waste baskets."



<sup>&</sup>quot;I don't know," remarked the visitor, doubtfully; "are you connected with the poetical department?"

#### Sidetracked.

Freight train No. 306 rolled into Leesburg ten minutes late, and the conductor, Jim Bedford, strolled into the depot to sign his name to the trainbook and receive his orders. He glanced at the piece of yellow, flimsy paper the operator handed him, and read instructions from the train dispatcher to hand No. 306, his train, over to Leary, and for himself to wait at Leesburg for orders. Leary was standing outside of the station on the depot platform studying the order he had received to take Bedford's train out of Leesburg, says the Chicago Tribune.

"What's the matter with 'The Bug' this morning?" asked Mr. Leary, solicitously. "Funny

thing sidetracking you here."

"No telling what 'The Bug' is liable to do," answered Bedford. "I'm glad he didn't tell me to take poison or run the train into the river. Great

'Bug,' that."

"The Bug" was the poetical name given by the trainmen on the I. K. & J. W. to Joplin, the chief train dispatcher of that division. He had originally been dubbed "The Bughouse," for the reason that it was generally believed along the line that Mr. Joplin's proper place was behind the bars in some State institution dedicated to the tender, fostering care of people with impaired intellect. Later the name had been shortened to simply "The Bug."

"I don't understand this thing at all," said Bedford. "But I suppose he wants to put me on 674 this afternoon and have me take it back to Rantoul. Well, I'll get a good rest, anyhow, and I

need sleep like everything."

Bedford hunted up the only hotel in the place, after leaving instructions with the operator where he was to be found. An hour before time for No. 674 to pull in he was up and dressed, and after a lonesome lunch in the hotel went over to the station to await the expected order. But none came; No. 674 pulled in, and the conductor, Martin, received two orders from the dispatcher, but there was nothing for Bedford.

"Nice place this," called out Martin from the top of the caboose as it went slowly bumping along at the end of the train. "Going to stay long, Jimmy?" Bedford merely swore softly, and moved off to a shady place across the track where he

could sit down and think it over.

What was "The Bug" going to do with him? Was he held at Leesburg for some special duty, and if so, what could it be? There was only one more freight train that day, and it was hardly to be expected that he was going to be put in charge. He sat around and studied the situation all the afternoon, and finally decided that he was to be ordered to go in on the passenger train to report at the end of the division to the Superintendent. He couldn't imagine why he should be called in after that fashion. He was not in trouble that he knew of, although a man could never tell whether he was in trouble or out of it as long as "The Bug" was in a position of authority.

But the passenger train pulled in and out again,

and still Bedford had received no orders. He hung about the station all the evening, but finally gave it up and went over to the hotel to sleep. He was down at the depot bright and early next morning, and told his troubles to Kane, who came in on No.

"Funniest thing I ever heard of," said Kane. "I should think if he wanted to fire you that he would find the ordinary way about as good as any. Why

don't you wire and find out?"

"Wire nothing," answered Bedford. "Only last week I wired 'The Bug,' and asked him if I should do so and so, and you ought to have seen the roast I got. Told me I was to obey the orders I received to the letter, and not bother asking him questions. Declared he would let me go on the instant that I wired him again asking what I should do. He said he was the man who was to tell me what I should do, and that he would tell me without any suggestions on my part. also said that he would fire me at any station I happened to be, the instant I made another insinuation that he did not know enough to handle trainmen and give them proper orders. sha'nt bother him to explain this order. He told me to stay here in Leesburg until further orders, and here I stick."

Kane thought it all over, marveled exceedingly at the marooning of his friend, Mr. Bedford, and

returned to his train.

The word had gradually spread among the trainmen that Bedford was hung up in Leesburg, and every train crew that passed through the town had considerable to say on the subject, but Bedford treated all their remarks with a supreme indifference. At the terminal no one dared to speak to "The Bug" about Bedford, and besides all the trainmen began to have a quiet notion that "The Bug" had blundered, and after giving Bedford the order to wait in Leesburg, had forgotten all about it. The trainmen resolved not to speak Bedford's name at the terminal, and do nothing to remind "The Bug" of the lonely James waiting patiently on the platform at Leesburg.

Two more days passed away and Jim Bedford still remained at Leesburg. He had grown to be a great object of interest to the villagers by this time. They wondered what a real live conductor could do hanging around Leesburg day after day, and apparently having nothing to do but sit under a shade tree across the tracks and watch the trains

go through.

James grew tired of the monotony of the station platform and the tree and began spending more of his time down town. In three days more he knew the name of every man, woman and child in Leesburg. He attended the revival services at the Methodist church at night, and because he had a strong bass voice was asked to sing in the choir and accepted the offer, and at every meeting he was to be found in his place, seated in his chair near the organ. He went to a barn-raising a halfmile from town, and worked with might and main all one day to put up the framework of Hi Hollister's new barn.

There was a fire in town one night and Jim was



the first man on the spot, and after organizing a bucket brigade to fight the fire, climbed up a ladder and rescued old Mrs. Tompkins from being suffocated. Through his efforts the town was saved from a conflagration that might have wiped out the whole of the town of Leesburg. So at a mass meeting of citizens the next day Bedford was presented with a gold watch as big as a biscuit, and with a detailed account of his heroism engraved in the case.

Another week passed by. Jim in the meantime had repaired the engine in Kaiser's flour mill, and cured old man Johnson of the rheumatism. He played the fiddle at a dance at Cyrus Hunter's and Rev. Nathaniel Boggies being ill from the effects of the protracted meeting, Jim preached the funeral for old Si Hannerkin, one of the old settlers

of Towers Township.

It was a beautiful sermon, too, in its way. Jim said that Mr. Si Hannerkin had always done his duty and run right on time, and that he always stood where his superintendent, Providence, had placed him, and that he always kept a full head of steam on, and had run straight and true all his life. The Towers County Review that week said it was the finest funeral sermon that had ever been heard in Leesburg.

The next week Jim taught the school for two days while the teacher took a vacation trip home. He also mixed the paint and directed the work of painting the engine house. He had become quite accustomed to life in Leesburg, and was considering an offer of the miller to take him into part-

nership.

One day "The Bug" was talking to one of the telegraphers in the division superintendent's office at the terminal.

"What ever became of that man Bedford?" asked "The Bug." Got mad suddenly and quit without a word, didn't he?"

"No," said the operator. "Jim wouldn't do that. He was too sensible a fellow to do a crazy

thing like that."

"Well, he's not here, any more," snapped "The Bug." "I didn't discharge him. He must have quit of his own accord."

"How do you know he quit?" asked the tele-

graph operator.

"Cause he ain't here," said "The Bug."
"When did he quit?" asked the operator.
"I don't know," snapped "The Bug."

He started an inquiry to find out when and where Bedford had quit the road. One of the clerks, after a long hunt, came in and showed "The Bug" the copy of a message.

"Here's the last record we have of Bedford,

sir," said the clerk.

"The Bug" read the order. It was to Bedford, conductor train No. 306, and was to the effect that Leary was to bring train No. 306 from Leesburg, and that Bedford, conductor, was to wait there for orders."

A cold sweat began to break out on "The Bug's" forehead.

"Is that the last train order in regard to Bed-

ford?" he asked in a low, halting voice. The clerk said it was.

"The Bug" turned to the operator and asked him to call up Leesburg, and ask where Bedford was. The answer came back in an instant:

"Sitting under a tree across the track waiting

for orders."

Bedford left Leesburg that night on the first good-bye, and the choir of the church sang "Till We Meet Again," and made it doubly effective by breaking down and weeping. The parting would have been much harder had not Bedford assured the gathering that he would be back again the next day on top of the caboose of train No. 306.

And he was. "The Bug" never showed by the slightest sign that anything unusual had happened, and Bedford received half pay for the three weeks

he had been waiting.

"I'm sorry 'The Bug' woke up and asked after me," said Conductor Bedford to the head brakeman the next day as his train rumbled out of Leesburg. "I would have owned that town in two months more, and been drawing pay as a conductor at the same time. 'The Bug' is a great institution."

#### Lawful to Send Racing News.

The Kentucky Court of Appeals in an opinion by Chief Justice Painter on December 18 holds that a telegraph company is not liable for transmitting a message to gambling places and in nowise responsible for the uses to which information

transmitted over its lines is put.

The case in question was Commonwealth against the Western Union Telegraph Company. It grew out of an indictment charging the company with unlawfully maintaining a common nuisance in furnishing "The Kingston," a Louisville, Ky., poolroom, information about horse races and unlawfully enabling the patrons at "The Kingston" to bet on the results of races in all parts of the United States. The lower court found the company not guilty.

Justice Painter holds in construing the statute that a telegraph company's position toward the public is like that of a railroad company and other common carriers. As to the point on which the

indictment was found, he says:

"At common law a gambling house is a common nuisance. It is detrimental to the public, inciting citizens to crime. Persons owning or occupying and controlling such houses are guilty, but the telegraph company is not in co-operation or control. The simple fact that persons receive the information and as a result of it are guilty of unlawful practice cannot make the company responsible. If that were true the transmission to newspapers of prize fights would be unlawful."

It has been estimated that the Marconi waves travel at the rate of seven times around the earth in a second. On this basis it would take nearly three minutes for a message to reach Mars when it is at its nearest point to the earth.



#### A Prominent English Telegrapher.

Charles H. Garland, the secretary of the London Branch of the Telegraph Clerks' Association of the United Kingdom was born at Witham, in the County of Essex, England, thirty-four years ago. When eleven years of age, he went to London and entered upon his first employment when about twelve and a half years old. He received an ordinary primary education, which has been augmented by continuous home study along many lines. He entered the Post Office telegraph service January 7, 1882, and soon rose to a position of prominence among his associates. In 1892 he was elected secretary of the London Branch of the Telegraph Clerks' Association, in which position he has displayed such uncommon zeal and fearlessness in advocating and advancing the interests of the telegraph clerks that he has been re-elected each year. He is at present a member of the operating staff of the central office in London.



. CHARLES H. GARLAND.

In 1895 he gave evidence on the health of staff before the Inter-Departmental Committee on Postal establishment, making a strong impression by his complete knowledge of the subject and the admirable manner of its presentation. In 1899 he was a member of the English delegation to the International Volta celebration at Como in Italy. His fluent and eloquent command of the French language, combined with rare ability in debate, secured for him the leadership of his delegation and a leading place in the deliberations of the International Congress.

In the many social functions incident to the celebration he was also a prominent figure and was always a favorite speaker at the banquets. Mr. Garland's important place in the celebration was recognized by the Italian government, and the decoration, "Order of the Italian Crown," was conferred upon him by the late King Humbert.

In 1900 he was a delegate to the Congress which met in Paris and which in a measure was a continuation of the Italian deliberations of the previous year. He was a delegate to the Trades Union Congress at Plymouth in 1899, at Huddersfield in 1900 and at Swansea in 1901, in the deliberations of all of which he took a prominent part. In 1901 he was also a delegate to the British Congress on Tuberculosis which met in London, where he read a paper on "Consumption in the Post Office," which attracted extended notice and which appears elsewhere in this issue. He has for years attended Postal Congresses in all parts of England. Mr. Garland is rapidly acquiring fame as a writer, and has for 3 number of years been a contributor to many well known journals. This year he contributed a study of "Women as Telegraphists" to the Economic Journal, the great English review of economics and organ of the British Economic Association, and an article on the "Post Office and Prevention of Tu-berculosis" to the Lancet, the leading medical publication of England. In addition to his many other activities he finds time to edit the Civil Service Magazine. Among his friends and admirers are many members of Parliament, before whom he has appeared in the interest of his Telegraph associates.

Mr. Garland's rise to leadership of the Postal Telegraph Clerks' Association of the United Kingdom at such an early age is due to his marked ability, his fearless independence, his aggressive and intelligent insistance upon remedial regulations and his high sense of integrity. He is withal a man of pleasing personality and the architect of his own fortunes.

#### Telegraph Poles Damaged by Woodpeckers.

'At a meeting of the British Ornithologists' Club, held in November last, there was exhibited the top of a telegraph pole which had been sent from the government contractors at Cardiff. It was pierced by a hole about three inches in diameter. The damage to the poles in that neighborhood was considerable, and was done by woodpeckers. Mention was made that some years ago there were complaints of the damage done by woodpeckers to the telegraph poles in Germany. Articles on the subject appeared in the ornithological journals, and eventually the plan of impregnating the wood with chemicals was adopted and was efficacious.

Among telegraphers, where there are so many professional gentlemen, every man ought to carry his "shingle" with him, so office associates would know whose advice they were seeking.

Recently a man went to one of these and asked: "Doctor, what can I get to prevent losing my hair?"

The man addressed, it appears, was a lawyer, not a doctor, and he promptly replied: "To prevent losing your hair? Why, get a divorce!"

One of the sublimest things in this world is plain truth.—E. B. Lytton.



#### General Mention.

Manager Edgecomb of the Postal Telegraph-Cable office at Portland, Me., recently invited the teachers and pupils of the public schools of that city, much to their pleasure, to visit his up-to-date office and examine the actual workings of the telegraph from an educational standpoint.

We are in receipt of the following, which was accompanied by an artistic desk pad for 1902:

"That all which is good—and none that is bad—and that happiness and contentment be your lot for 1902, is the sincere wish of your friend, Henry L. Shippy, treasurer John A. Roebling's Sons Co., of New York.

The father of a thirteen-year-old boy, who it is claimed is a very good operator, has reason to be proud of his son's ability, but he cannot expect us to proclaim him the youngest operator in the country. Compared with others of tender age who have shown exceptional ability as telegraphers, he is an old timer. Our records show that good telegraphic work has been done by children, both male and female, at five years of age.

President Roosevelt at Washington, D. C., on December 12, closed a telegraph key which opened the proceedings of the convention of the Woodman of the World at Seattle, Washington. The telegraph circuit was about 4,000 miles in length. It is not on record that the manipulator of the lightning at the distant end endeavored to engage the President in Morse conversation. The President enjoys the personal acquaintance of a large number of well known operators, who occasionally talk "shop" with him.

Mr. L. C. Hall, chief operator of the Western Union Telegraph Company, Norfolk, Va., contributes an interesting article, entitled "Telegraphic Talks and Talkers," to the January number of McClure's magazine. It will attract attention not only among telegraphers, but of the general public as well, for it successfully presents the humanly side of the craft, and ingeniously draws a parallel between "Morse" and a spoken language, from the fact that "Morse" is the language into which all telegrams have first to be translated and from which a re-translation becomes necessary before they can be read by the outside world. The article is a welcome contribution to the literature of the telegraph.

The large relay office maintained by the Western Union Telegraph Company for many years at Ogden, Utah, is being transferred to Salt Lake City, and the working force in the latter place is to be increased to the extent of from 15 to 20 operators. Heretofore every message sent out or received at Salt Lake City had to be relayed at Ogden. The result was that there were many delays, and, in times of great rush of business, much confusion and loss of time. Now Salt Lake City is to be one of the transcontinental stations, the others being Chicago, Omaha, and San Francisco. Assistant Superintendent Belvidere Brooks of Denver is in charge

of the transfer. The consolidated offices in Salt Lake City will be under the management of J. B. Twiford, for many years manager of the Ogden office.

It is reported that Dennis J. Hern, general manager of the Mutual District Messenger Company, Boston, Mass., is mentioned as possible Wire Commissioner under Mayor Collins. Mr. Hern is an expert electrician, also an old time telegraph operator. He was superintendent of the Atlantic and Pacific Telegraph Company and held the same position in the Mutual Union Telegraph Company, at Boston. He is President of the Boston Low Tension Wire Association, composed of all companies haing wires underground in that city. His position with the Mutual District Messenger Company is one that he thoroughly enjoys. Should he be tendered the position by Mayor Collins there is sure to be a howl from about five hundred youngstershis messenger boys, who are as devoted to him as he is to them.

#### New York Visitors.

Mr. E. B. Pillsbury, superintendent of the Postal Telegraph-Cable Company, Boston, Mass.

Mr. C. C. Adams, superintendent of the Postal Telegraph-Cable Company, Philadelphia, Pa.

Mr. J. W. Kates, general superintendent of the Postal Telegraph-Cable Company, Richmond, Va.

Mr. L. A. Tanquary, chairman Board of Directors, Order of Railroad Telegraphers, Cucharas, Col.

#### Wants Uncle Sam to Buy the Telegraphs.

Representative Jackson, of Kansas, has introduced a bill in Congress providing that the Government purchase the Western Union and the Postal Telegraph-Cable companies and thereafter operate them in connection with the Post Office Department. Provision is made for appraisal of the property of the companies and for the payment of its appraised value when the amount is reported to Congress.

MAGNETIC CLUB.—The annual business meeting of the Magnetic Club will be held in Room 60, No. 195 Broadway, New York, on Thursday, January 9, at 5 P. M., for the election of officers for the ensuing year, of four members of the Governing Committee to serve for two years, and for the consideration of such other business as may properly come before the meeting. It is also proposed to amend Article V of the Constitution to read: Meetings shall be held in the months of June and November, etc.

TELEGRAPH AGE is the only telegraphic paper published in America. It is up to date, covering its field thoroughly, and no telegrapher, official or operator, can afford to be without it.



#### Death of Charles W. Lundy.

Charles W. Lundy, superintendent of the Direct United States Cable Company, Halifax, N. S., died in that city on December 16, aged sixty-four years.

Mr. Lundy was undoubtedly the dean of transatlantic telegraphers, and his removal reduces to its narrowest limits that small heroic band of pioneers who, following the success of the English channel cable, went forth into the undiscovered country of deep sea cable possibilities with little to guide them but research, experiment, and above all, an indomitable will, which enabled them to lay the foundation of that vast network of cables that now connects the different countries of the world. The laying of an Atlantic cable to-day is comparatively a small matter, but it was not so in the earlier days of the subject of this sketch, when the scheme was visionary to many, and ridiculed by some, so that all the more honor is due to the first workers, who were not to be discouraged by difficulties, nor suppressed by failure. Mr. Lundy served in the cable expedition of 1858, and was stationed at Bay of Bull's Arm, in Trinity Bay, Newfoundland, which was the first transatlantic cable station in America. conjunction with his companions there he received and forwarded the earliest cablegrams of which authentic evidence is preserved. Unfortunately this cable was soon interrupted and abandoned. In 1865 following the vigorous energies of that great man, Cyrus W. Field, and his worthy associates, who never yielded to despair, of the enterprise, Mr. Lundy again went to Newfoundland to await, at Hearts' Content, the arrival of the expedition of that year, but alas! was subjected to an even greater disappointment, for the cable broke in mid-ocean, and could not then be recovered. Then came the dark days of doubt, depression, and despondency, but, like the evening star, the light was ever present except when obscured by the passing clouds of temporary failure, which could not suppress the inherent energies of Mr. Field, who went to London, and by his personal solicitation and influence enlisted the sympathies and assistance of a small number of philanthropists and capitalists whose names and work, then probably unknown beyond their own circle, will last for ever in history as an evidence of a desire to rescue from temporary oblivion a work, the success of which they knew would be a dominant factor in the world's prosperity and friendship of nations.

As it is said that all things come to him who waits, so the Atlantic cable expedition of 1866 was a complete success, for not only was that cable laid, but the mid-ocean end of the cable lost the previous year, was recovered and continued to Newfoundland, thus connecting the two hemispheres. This was undoubtedly the starting point of the gigantic deep sea cable service, as we find it to-day. Mr. Lundy served in this expedition on board the "Great Eastern," and remained a while at Heart's Content, in charge of the station, shortly afterwards going to Madras, India, to continue work in the same field.

With the organization of the Direct United

States Cable Company in 1874, Mr. Lundy was made that company's representative on board their new cable steamer "Farraday," during the laying of the cables, and afterwards represented the company at Torbay, N. S., until the different sections were transferred to Halifax. Here he remained as superintendent until the time of his decease. He was endowed by nature with exceptional gifts, for he was recognized as one of the most brilliant men in the cable service, while his distinct personality and bonhomie were proverbial as also his unimpeachable honor and integrity.

#### Obituary Notes.

John W. McRoy, operator at Mobile, Ala., died on December 13, 1901, aged 38 years.

John Swinton, a journalist well known to the older members of the New York telegraph profession, died at his home in Brooklyn on December 15, in the seventy-second year of his age.

Robert W. Jaggard, assistant electrician of the City Electrical Bureau, of Philadelphia, Pa., died on Dec. 22. Mr. Jaggard rose from the telegraph ranks, beginning as a messenger, graduating as an operator and studiously developed into an expert electrician.

Richard S. Gough, manager of the Postal Telegraph-Cable Company, Union Stock Yards, Chicago, Ill., died suddenly of heart disease on December 17. Mr. Gough was born in England in 1844, and went to Chicago in 1859, where he learned telegraphy, securing a position as operator at the Union Stock Yards the year following. Mr. Gough's entire telegraphic career was spent at this point with the exception of a brief period during the Civil War, when he was in the United States military telegraph service. He leaves a wife and four adult children.

E. Warren Fish, of Toledo, O., died on December 6 after an illness extending over a period of several months. Mr. Fish was born at Bellevue, O., March 18, 1846. He entered the telegraphic field first as a messenger at the age of 14, and soon became an expert telegrapher. In 1860 he was appointed manager of the old Atlantic and Pacific Telegraph Company at Cleveland, O., but resigned this position two years later to enter the service of the Western Union Telegraph Company at St. Louis, Mo., remaining there but a short time, when he came to Toledo for the same company. In 1866 he accepted the managership of the Union Depot office of this city, which position he held up to the time of his death. Mr. Fish was a member of the Telegraphers' Mutual Benefit Association, and was widely known. He leaves a widow, who has the deep sympathy of the entire profession. The funeral services were held Sunday afternoon, December 8, and were largely attended by Lake Shore railway officials and by Toledo telegraphers.

An honest man is able to speak for himself, when a knave cannot.—Shakespeare.

#### LETTERS FROM OUR AGENTS.

[Advertising will be accepted to appear in this department at the rate of five cents a word, announcements to be enclosed with a border and printed under the name of the place of the advertiser. The special local value attached to advertising of this character will be apparent. agents are authorized to solicit advertisements for these columns, and further information on this subject may be obtained on application.]

#### CLEVELAND, O., NOTES.

A. Behner, formerly wire chief of the Western Union Telegraph Company, has resigned to go with Lamprecht Bros. & Co., taking the place of C. C. Daugherty, who is now working for the Western Union Telegraph Company.

J. Robert Maynard has also been added to the force of the brokerage firm, thus making five regular men at their main office. About a month ago the firm opened up a new branch office at Youngstown, O., with W. B. Stephens as manager and W. F. Fiedler as operator.

At their branch at Akron, O., C. App is man-

ager and E. H. Roth operator.

E. C. Monroe was in charge at Youngstown for a couple of weeks, but he is back at the main office again.

#### BUFFALO, N. Y., WESTERN UNION.

Mr. Albert J. Fowler and Miss Agnes McNerny, of this office, were married recently. THE AGE and their many friends extend congratulations and best wishes.

Mr. W. H. Newall has accepted a position with the Michigan Investment Company, and Mr. M. Williams has gone with Spader & Co.

Miss Elizabeth Fitzmaurice is still confined at

her home by a long siege of sickness.

Harry Leipman has changed from the night force to days.

Miss Nellie McCann has returned after the close of a busy season at the Anchor Line office. Fred J. Keller has also returned from the Dock Office.

William B. Phillips, formerly solicitor here, and for the past three months employed as clerk in the city freight office of the New York Central Railroad, committed suicide by hanging.

#### ST. LOUIS, MO., WESTERN UNION.

Wm. N. Manley has returned to St. Louis, having been absent for some time, conducting a poolroom in the South.

E. C. Leppere, who has been manager for the Western Union at Alton, Ill., for the past two years, is now one of the force here.

Miss Annie McLaughlin has resigned and gone to Atlanta, Ga., to work for the same company.

Patrick Hogan, Peter Johnson and Henry Horstman have also gone to Atlanta, where they will be employed in the Wheatstone service, which has just been inaugurated at that place.

Born.—To Mrs. and Mr. C. A. Willis, formerly of Cairo, Ill., now of St. Louis, a daughter.

#### NEW YORK CITY.

All popular music at less than half price. "Utopian Waltzes," "Whirlwind March, "Ben Hur Chariot Race," "Belle of Manhattan" March and Two-Step, "When You Were Sweet Sixteen," "My Old Virginia Home," "Left on the Battlefield," "Dolly Gray," "The Sweetheart That I Loved In Boyhood Days," "Spider and Fly," 18 cents each. "Palms," "Popular Gems," "Lang's Flower Song," "Calvary," "Rusticana," 10 cents each. Pianos—all makes—sold & congre cents each. Pianos—all makes—sold, \$1.00 per week. B. L. Brannan, 195 Broadway, New York.

#### WESTERN UNION.

Resigned—G. U. Morris, P. A. McGriff and W. E. Gilbert.

Mr. George A. Newton has resumed work on the call wire loops. The outings he has had at the different offices and race tracks during the open season has fully restored his health.

Mr. George W. Boyle and wife of Little Falls, N.

Y., were recent visitors.

George M. Murphy, a brother of Frank D. Murphy, died suddenly in San Jose, Cal., December 15. Appointments—J. F. Stacom, C. E. Bridgeman, A. J. Tierney, C. W. Minier, H. H. Riggleman, J. L. Boyle, P. S. Sprouse and W. L. Wilkinson.

Mr. Henry Holland, the veteran manager of the Western Union telegraph office in the Maritime Exchange, New York, is well and favorably known to the entire shipping community of the metropolis. His acquaintances not only comprise the owners and agents of vessels, but it also embraces the captains and other officers of ships hailing from all parts of the world. Although having been connected with the shipping service since it began to utilize the telegraph, Mr. Holland is a young man in appearance and movements, which is no doubt due to his long association with seafaring men, who have the reputation of being young when the dwellers on land are thinking of the hereafter.

Mr. Jas. A. Griswold, formerly of The Associated Press in Boston, Mass., is now with C. I.

Hudson & Co., Wall street brokers.

The sympathy of his friends is extended to Mr. George B. Scott, superintendent of the Gold and Stock Telegraph Company, New York, on the death of his daughter, Susie Duer Scott, which occurred at his home in Yonkers, N. Y., on December 17.

Mr. Jacob Tuck, for many years a prominent operator of this office, who sometime since was admitted to the bar, has opened law offices at 346-348 Broadway, where he is conducting the general prac-

tice of law.

At a meeting of the stockholders of the Serial Building Loan and Savings Institution, and the Electric Building and Loan Association held at the room of the associations, Western Union Building, December 17, the following nominations were made: David B. Mitchell, president; John Brant, vice-president; Thomas M. Brennan, treasurer; Ed-



win F. Howell, secretary; John B. Sabine and Augustus A. Rich, attorneys. Directors, W. J. Quinn, Francis W. Jones, E. S. Butterfield, E. F. Cummings, F. W. Gregory, W. C. Burton, T. A. Brooks, M. J. O'Leary, A. E. Chandler, M. F. Gaffney, T. E. Fleming, H. G. King, G. H. Schnitgen, G. S. Blanchard and A. P. Stirling. Practically the same persons were nominated for both associations. The election will take place the third Tuesday in January, the 21st inst., and as there is no opposition those nominated will be elected. The auditors chosen and elected for the Serial are: R. M. Nesbitt, James R. Beard and George H. Murphy.

At the annual election of officers of Amaranth Council, Royal Arcanum, Walter C. Burton was elected first representative to the Grand Council of New York State, and J. C. Watts, vice-regent, both of this office. Among the past regents of this council are W. C. Burton, W. H. Jackson and W. A. Van Orden of "105." Quite a number of telegraphers are members of Amaranth Council.

John Brant, secretary of the Old Time Telegraphers' and Historical Association has lately been hard at work getting out the report of the Montreal meeting, and it is now about ready for distribution. A full discussion of the Telegraphers' Home pro-

ject is printed in this book.

#### POSTAL.

J. Bert Roloson of the eastern division, who has been absent on account of severe illness, has returned to duty.

Harold Rhodes, who has been away for three weeks, owing to severe illness, is back at the office

agaın.

Mr. W. H. Mathews, chief clerk, has in a short time made his department a model of efficiency which would be well nigh impossible to improve on. He has everything systematized to a nicety and confusion among his force is unknown.

G. F. Randolph, for the fifth year, is engaged in doing the artistic lettering on franks of this com-

pany.

Mr. W. I. Riker has returned for the winter, after spending a season on his farm in New Jersey. The following were away on holiday vacations:

A. E. Whitaker, J. T. Good and P. O. Purcell.

Douglas D. Forbes, an old time telegrapher, a veteran of the Civil War, and for the last ten or twelve years an operator in this office, died after a severe illness of several weeks at the residence of his brother in Brooklyn on December 14, aged 67 years. Mr. Forbes, who had been connected in the past with nearly all of the different telegraph companies, was highly esteemed by all, and he was regarded as a first class operator.

#### TOLEDO, O., WESTERN UNION.

A very pretty home wedding took place here on November 26, when Mr. Charles Olsen, "one of the finest" on the day force, was married to Miss Edna Grace Eicher. The boys remembered the pair handsomely with a beautiful mantel clock and two candelabras to match.

WASHINGTON, D. C., WESTERN UNION.

Mr. Raymond B. Dickey, of the all night force, is spending the holidays with friends and relatives in Indiana.

Miss Maud L. Robinson has accepted a position with the Western Union in Jacksonville, Fla.

Additions to the waiting list: Messrs. Evans, Gaskell, Casterlin, Howe, Davin and Hickok.

J. L. Carney has resigned.

Mr. F. Fernandez is confined to his room on account of illness.

Mr. W. E. Durnin of Philadelphia paid us a visit

recently.

Mr. Edward Libbey is in charge of the Capitol office for the coming season, assisted by Messrs. Rodier and Winters.

SEATTLE, WASH., WESTERN UNION:

Harry Reynolds has arrived from San Francisco.

Departures: W. C. Neele, to Vancouver, B. C.; J. Frank Holder, resigned to accept a position with the New York Life Insurance Company, this city.

Visitors: Col. R. C. Clowry, C. H. Bristol, Chicago; F. Jaynes, L. McKisick, San Francisco, and J. Levin, Minneapolis.

As a result of the visit of these officials we expect better facilities for handling our increasing business in the near future.

A son has been born to E. S. Swift.

#### CHICAGO, ILL.

Typewriters bought, sold, rented and repaired. Renting a specialty. Also Agency for "Telegraph Age." Telegraphers' Typewriter Co., Room 5, 122 La Salle St., Chicago, Ill. Be sure to mention Telegraph Age.

SOMETHING NEW—no operator should be without. The Eacutt-Cawthern Typewriter Cleaner is a simple little brush; can be inserted in machine in two seconds, type thoroughly cleaned in 30 seconds without soiling fingers. Formerly required 15 minutes, and soiled and inkstained fingers. Price 50 cents, postpaid. Agents wanted. Eacutt and Cawthern, Room 704, 86 La Salle St., Chicago, Ill.

#### WESTERN UNION.

Frank Stevens took a trip to Buckley, Ill., to attend his sick mother.

Miss W. C. Priess, of Glendale, Ill., and B. A. Burdick, of this office, were married November 16, and our congratulations are most hearty.

Mrs. Mark Smith, who has been nursing a broken arm, is back again at the office.

Traffic Chief Frank Richardson has been on the sick list.

Division Chief Frank Crittenden, who has been away sick for two weeks, was represented during his absence by Bert Johnson.

Chief B. F. McKee is developing much talent as an amateur photographer, and is producing some excellent pictures.

The chief operator, assistant chief operator, wire chiefs and division chiefs have been hustling in order to overcome the trouble on hundreds of wires caused by the recent cold snap, which has impaired the telegraph service over a wide reach

of country.

The complimentary military ball given by the Signal Corps, I. N. G., at the armory, Friday, December 6, proved to be one of the most enjoyable events of its kind this season. The grand march was led by Capt. J. W. McConnell, commanding the Signal Corps, and Mrs. W. J. Lloyd, the charming wife of our ex-captain. Six hundred couples did homage to the occasion.

The orchestra was directed by Prof. A. F. Weldon, leader of the 2d Regiment band, and flattering comments were heard from all sides upon the su-

perb quality of the music.

As was expected, the Chicago telegraphers were liberally represented and no one was heard to say he did not have a delightful evening.

The armory was tastily decorated with the na-

tional flag and Signal Corps flags.

A word of praise for the members of the Signal Corps should not be overlooked. Soldierly and neat in appearance, uniformity of dress, buttons and brasses aglow, combined with courteous and strict attention to their guests, elicited commendation and assures them of the good wishes and support of their adherents at the next reception.

At the annual election of Morse Council No. 347, National Union, the following officers were chosen: Henry Jahn, president; O. B. Sims, vice-president; Edward Hearn, speaker; F. J. Scherrer, recording secretary; Henry Behl, financial secretary; G. J. Schoenfeldt, usher; W. M. McLean, chaplain; Mr. O'Brien, sergeant; Mr. Dorien, doorkeeper; Doctor Seidscheck and J. Leary, delegates to the cabinet; F. M. Crittenden and J. McCurdy delegates to the general assembly.

Fully three hundred telegraphers attended the "stag" given by the Chicago Telegraphers' Athletic Association Saturday evening November 30, an attractive programme being presented. Mr. Tom Burke, in opening the evening's entertainment, stated that the object in bringing about the social affair was to further the principle of good fellowship among telegraphers. He then presented Mr. Thos. Hanley as master of ceremonies for the evening, and Mr. Wm. Hefferman as referee for the boxing contests.

Mr. Reading presented an interesting and laughable monologue. Mr. John McClure, of the Buckingham Department, next sang the "Holy City," accompanied by Mr. Bert Forbes on the organ.

An agreeable surprise was the Shakesperian acting of Mr. Dugan, of the first Cleveland wire, days. He acted his parts in a creditable manner. Two spirited boxing contests were marked features of the evening, between the execution of which refreshments were served.

POSTAL.

Messrs. Darby, Cowdrey and Hatch have returned to work. Mr. Hatch spent a vacation in Ohio, while Messrs. Cowdrey and Darby were sick.

Business has continued very good, and will no doubt last until after New Year's.

Messrs. J. M. Strong, Thomas Manning, Frank Lowe, Ulerich, Diefenderfer, Girard and Goss have been transferred from extra to regular force.

L. M. Strong has left for St. Louis. Mr. Mendelsohn has returned from a trip to the South; he visited Memphis, New Orleans and other Southern cities.

Among recent arrivals on the extra list are: Miss German, F. Smith, Mr. Morton, Mrs. Reynolds, Mr. Knolley, Miss McLean, Mr. Lawrence. Mr. Bowman is working a new trick, 10.30 A. M. to 7.30 P. M.

B. I. Gable, formerly operator at Madison, Wis., is said to be dangerously ill at Belle Point

Hospital, Ft. Smith, Ark.

The Skirrow Arm Extension Resonator has been placed on the New York bonus wire. It is far ahead of the old style in use in this office.

Mr. Gilpin, who recently joined the United States Army, was a recent visitor to this office. He is leaving for signal service in the Philippines. He was formerly an operator at the Board of Trade office.

J. Newell Smith, of this office, a musician of local repute, has composed a song entitled, "Laurilee, My Laughing Blue-Eyed Baby," which

has been well received.

MONTREAL, QUE., GREAT NORTHWEST-ERN.

Eighteen lockers for typewriters have been placed in the operating room. This is a great improvement, as every "mill man" will have his own apartment securely locked. Our circuit manager, Thomas Rodger, cannot be too highly praised for the way he studies the comforts of his operators.

C. W. Soules has resigned and secured a position with the Postal, at Augusta, Georgia. He

was very popular here.

Arthur Ross has accepted a position with Broker

Barclay, Metropolitan Stock Company.

Enquiries at the Montreal General Hospital elicit the fact that Miss Malvina St. Pierre, of this office, who has been ill for some time, is progressing satisfactorily.

Business continues good and consequently there

will be no reductions made in the staff.

TORONTO, ONT., GREAT NORTHWEST-ERN.

A busy season for the Great Northwestern in Toronto has just ended, and the staff, even at this late date, is fairly large. Mr. Charles E. McManus, chief operator, is ably assisted during the day by Mr. John B. Rogers, wire chief, and Messrs Archie Pedan and James F. Middlemiss, traffic chiefs. Mr. J. L. Curry is night chief operator, Mr. Charles W. Dawzy traffic chief and Mr. H. Clark all-night chief. Mr. A. B. Smith is superintendent of construction. Mr. J. Duckworth, inspector.

Although some of our best known men are employed in outside offices, many familiar names

will be recognized in the following list:

Day staff: Messrs. R. Burns, Frank Burns,

Willard Chalmers, James Cormack, W. J. Dillon, Charles Eggett, George Flannery, Edward Flannery, V. Fleury, W. J. Hill, O. Hitchcock, Edward Hiscock, W. Ide, J. Kirkup, H. Lewis, Frederick Lee, C. Lillie, Geo. McBain, Harry Phillips, W. D. Toye, J. Watson, Frank Worsley, Mrs. Baird, Misses Carine Brown, Amy Brown, Alice Briggs, Jennie Clark, Edith Curry, Jennie Cunningham, L. Euart, Hattie Hill, Grace Hiscock, Daisy Holding, Dot Holding, Helen Kidd, E. Kinsman, Margaret Lochead, Louise Martin, Louie Phillipeau, G. Quigg, R. Rothwell.

Night: Messrs. R. A. Baker, L. Douglas, H. Kirkpatrick, A. Moysey, J. McCarthy, A. Rich-

ardson, Harry Rowntree.

Miss Mayme Dawson at the Evening Telegram,

and Mr. Geo. Curry at The World.

Ticker girls: Miss Yvonne Douglass and Miss Berenice Kaiser; Miss Annie Coakwell, business clerk.

Day checks: Messrs. Harry Bucklee (chief), Fred Sylvas, Geo. Funston, Wm. Pittfield, K. Miller, F. Craine.

Night checks: W. Smart (chief), E. Byron, F. Halliman, I. Brazil.

#### BOSTON, MASS.

Typewriters for sale, to rent and repaired. Remington, Smith, Densmore and all makes sold or rented on easy monthly terms to telegraphers. Send for samples, catalogues and full information to E. M. Bennett, Manager, The Typewriter Exchange, 38 Bromfield Street, Boston, Mass.

#### WESTERN UNION.

"Deacon" Smith has been appointed on the night force and assigned to the first New York wire, vice J. J. Hannon, who has gone to the Boston Globe.

F. J. Sullivan succeeded "Deacon" Smith, Edward Paine, who has been recently appointed to an all-night trick, taking Mr. Sullivan's place and

Nathaniel Goodwin Mr. Paine's.

Mr. Thomas Lawrence, from Superintendent Roche's office, has resigned to accept a position as manager for the Metropolitan Stock Exchange, Brockton, Mass. Samuel Tracy, who has been working on Manager Henderson's desk, is filling in Mr. Lawrence's place temporarily and Mr. Buzzell vice Mr. Tracy.

The Telegraphers' Savings and Purchasing Association of Boston, Mass., which is organized on the same lines as a similar institution in Washington, lately declared an 18 per cent. semi-annual dividend. Mr. Frank T. Viles is the president.

#### CINCINNATI, O., NOTES.

A son has been born to Mr. James Pigman.

R. D. E. Rowe, formerly of Pittsburg, Pa., now a resident of Newport, Ky., was a recent visitor.

Frank Duffy has left the Murphy Brokerage Company, to take a position with the Odell Broker Company.

Martin Cook has accepted a position with the Murphy Brokerage Company of this city.

William Lukens is back again to work after an operation having been performed for appendicitis.

J. Van Cullen Jones, the old timer, well known throughout the country, is lying dangerously ill in this city from an attack of pneumonia.

George D. Holbrook has left here to engage in

commercial business at Savannah, Ga.

Harry Horn, late of the St. Louis Globe-Democrat telegraph department, but for some time engaged in the brokerage business at Vincennes, Ind., and Louisville, Ky., made a flying visit to the city a few days since. He was called to Dayton, Ohio, by the sudden death of his father. Mr. Horn will locate in New York at an early day and make that his home in future.

The annual meeting and banquet of the Morse Mutual Benefit Association to be held in the early part of January promises to be of unusual interest. Some very important matters will be brought before the meeting and possibly some radical changes made in the constitution and by-laws.

#### PHILADELPHIA, PA.

My motto—Honorable Dealing. D. A. Mahoney, Special Representative, FAY-SHO TYPEWRITER. Main office, W. U. Tel. Co., Philadelphia.

SPECIALTIES.—Rebuilt Fay-Sho, Remington, Smith, and Jewett "Mills." \$40 to \$50. Send for telegraphers' special prices and terms. Discount to members O. R. T. Agent for Alexander Word Register.

#### WESTERN UNION.

Mr. Frank E. Maize, president of the Electrical Aid Society and well known to the fraternity at large, has received a well-merited Christmas gift in the shape of a promotion to be assistant manager in the city electrical bureau, of which he has been a member for some years.

Thos. J. Fahy, a well known old timer in the employ of J. B. Fleischman & Co., died recently.

#### Deafness Cannot be Cured.

by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube is inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that cannot be cured by Hall's Catarrh Cure. Send for circulars, free. F. J. CHENEY & CO., Toledo, O.

Sold by Druggists, 75c.

Hall's Family Pills are the best.

The news of his death was a shock to many

As we write, another old timer, Joseph Bradley, is lying at death's door.

POSTAL.

Mrs. C. W. Power was made very ill in consequence of vaccination and had to remain at home.

Chief Operator C. A. Stimpson was absent for a number of days superintending the opening of new offices in Delaware and Maryland.

The office check boys and girls both day and night workers, were gladdened by liberal donations made by the operators for their Christmas cheer.

The holiday season did not pass by very propitiously for Robert Mecredy of the Commercial Exchange office; he encountered his old enemy, the gout, which held him in its clutches the greater part of the time.

The following changes have recently been effeeted in the Delaware-Maryland district: Mr. E. H. Bacon, assistant train dispatcher at Salisbury, Md., has resigned to accept the managership of our office at Seaford, Del., vice G. R. Moffitt, resigned.

Mr. Frank Ulman, formerly messenger at Salisbury, has, by dint of energy and persistency, so qualified himself as to be considered a worthy successor of Assistant Train Dispatcher Bacon, to which position he has been appointed.

PITTSBURG, PA., POSTAL.

With the passing of the old year, another merry Christmas has vanished. We had the usual half holiday, and the check girls and boys were remembered by the force. Judging from the smiles and satisfied looks which flitted on their countenances before and after the day of days, all fared well, both as givers and recipients of the compliments of the season.

We now have two bonus circuits, and they are manned by good, reliable men-Frank C. Barr and H. W. Watterson on New York, and E. M. Love and L. R. Kerins on Chicago.

Mr. A. B. Lafferty has returned to his desk after

a spell of sickness.

Mr. A. M. Smith, chief operator, who had been confined to his room with a severe cold, is again around and his return was pleasing to the force.

Resignations: M. L. Swinger and T. M. Wilson. Arrivals: H. W. Watterson and F. W. Powers. KANSAS CITY, MO., WESTERN UNION.

John Dowd is the happy father of a son.

Frank Howe is temporarily upon the retired list, having sustained a dislocated shoulder, the result of a street car collision.

Our sympathies go out to Frank McCarroll in the death of his father.

Wm. Exley, of the Chicago Western Union office, was recently renewing acquaintances among us after a lapse of nearly twelve years. Mr. Fred Lesem, of Chicago, and Harry Lesem and wife, of St. Paul, were also recent visitors, having been called here on account of the serious illness of their father, Mr. Louis Lesem.

Among recent arrivals we note the following: Miss Alice M. Depue, from Omaha, Neb.; Marv M. McGinnis, from the Postal, this city; Earl Hulse, Alfred T. Hickey, Floyd A. Grace, Ft. Smith, Ark.. Edw. R. Wakefield, Joplin, Mo.; Chas. W. Clowes, Colorado Springs, Col.; Burt L. Dunbar, Chas. H. Hanson, C. C. Comstock and Mrs. L. R. Hart.

Departures—E. R. McLaughlin, to Hot Springs, Ark., Western Union. Frank M. Meisburger resigned to accept position in the Postal service in this city.

Mr. T. M. A. Haston having grown tired of the hardships of a postman's life, has returned to the key in this office.

WACO, TEX., WESTERN UNION.

Mr. L. G. Hamilton, formerly of the Beaumont, and more recently of the St. Louis, Mo., Postal offices, relieved Mrs. Eva Boutz of this office, who spent the holidays at Beaumont, Texas.

Mrs. E. H. Rogers, of The Associated Press, has been transferred from the Times-Herald, of this

city, to the Express at San Antonio, Tex.

#### Marconi Receives a Signal Across the Ocean.

The wonderful success of Marconi, the Italian scientist, in transmitting a signal by wireless telegraphy 1,800 miles across the Atlantic ocean, from Cornwall, England, to Newfoundland, caused a profound sensation in all parts of the world. Many electrical experts doubted Marconi's claim that he had actually received the letter "S," which is the simplest one in the Morse alphabet to transmit, and for that reason is one that could easily be produced on a sensitive instrument by atmospheric current. Unfortunately these interesting experiments, which looked so hopeful, were suddenly brought to an end by the action of the Anglo-American Telegraph Company, which exercised its right of its exclusive grant of a telegraph monopoly in the colony of Newfoundland in serving notice upon Marconi through its attorneys enjoining further experiments in wireless telegraphy.

The communication from the telegraph com-

pany's solicitors ran thus:

"Sir: We are instructed by the Anglo-American Telegraph Company that you are at present in this colony engaged in the work of telegraphic communication and that you have appliances erected within this colony to carry on said work.

On behalf of the Anglo-American Telegraph Company we hereby give you notice that the sole and exclusive right to operate and construct any system or means by which telegraphic communication is brought about from any place or places in this colony or within the jurisdiction of the government of the colony to any place or places outside the colony is owned and possessed by them. Consequently the work that you are now at present engaged in, within the colony is in direct violation of the rights and privileges of our clients.

Unless we receive an intimation from you during the day that you will not proceed any further with the work you are engaged in, and will remove the appliances erected for the purposes of telegraphic communication, legal proceedings will be instituted to restrain you from the further prosecution of



your work and for any damages our clients may sustain or have sustained.

And we further give you notice that our clients will hold you responsible for any loss or damage sustained by reason of your trespass upon their rights."

Having read this threatening letter, Marconi de-

livered this utterance:

"The world must have my invention. Who will

oppose it?"

Upon receipt of this letter Signor Marconi wrote to the Anglo-American Company saying he did not wish to interfere with its rights, and that he was about to remove his apparatus. The Anglo-American Company then sent its second letter. This letter was received after the press of Great Britain and the United States had pronounced upon the attitude of the Anglo-American Company as disclosed by its first letter. In its second letter the company offered to consider proposals for a compromise. This led to the opening of negotiations which are now in progress in London between the Anglo-American and the Marconi companies.

Due allowance being made for the marvelous rapidity with which science progresses in these days, and the fact being recalled that only fifty years ago the world was laughing at transatlantic cable projects, and commercial electric light and power had then hardly been dreamed of, the more conservative among scientific men will be inclined to agree with a telegraph expert, who recently said:

"As an experiment, Marconi's achievement was magnificent. Personally, however, I must question the practicability of the system. I think that foreign currents of electricity will make the perfection of his plan well-nigh impossible. Frequently in sending messages over cables we are greatly troubled by these strange currents. If we have difficulty in transmitting through regular channels, it seems to me Marconi will meet insuperable obstacles in attempting to overcome these same difficulties. A flash of lightning five hundred miles away will affect signals; what would the same flash do with a message in the air? I appreciate that Marconi's system is only in the embryonic stage, and for that reason one should not criticise it harshly. As I have said, Marconi has made a beautiful experiment. But I shan't be satisfied until I hear that something more than the letter 'S' has been transmitted across the ocean."

After the actual outcome of the Cornwall-Newfoundland experiments, the methods employed therein are likely to command attention from both the electrician and the unscientific public. It will be noticed, for instance, that Marconi did not maintain the ratio once deemed necessary between the height of his vertical wire and the distance covered. The elevation of this part of the apparatus at Poldhu, England, was apparently no greater than that needed for merely crossing the English Channel. The curvature of the earth does not now seem to be so formidable an obstacle as it was once believed to be. There is a bulge over one hundred miles high between Cornwall and Newfoundland.

Again, one great essential to increasing the range of Hertz waves is to use more power in generating them. Like light and heat, these vibrations diminish rapidly in intensity as they spread out from the point at which they emanate. If after a message has been transmitted two miles it is sought to send one five, the energy required for the second test would bear the numerical relation of twenty-five to four to that employed in the first. In other words, the strength of the impulse decreases as "the square of the distance." Early in the year Marconi covered nearly four hundred miles by his system. To reach 1,800 miles he would need to create a disturbance more than twenty times as violent.

The cost of doing so at present is far from trifling. Marconi talks about spending \$60,000 on his station in Newfoundland. Eventually, perhaps, he or some one else may simplify the requisite apparatus and reduce the expense. But Hertz wave telegraphy will hardly compete with land lines, if what is saved in wire is lost in the equipment of a station. Besides, it must be remembered that at present fewer words a minute can be sent by the new system than the old. The chief advantage to be derived, apparently, will be in communicating with vessels at sea. Submarine cables may be costly affairs, but they will remain in service for many years

vet.

#### Personal Mention.

Signor Marconi will visit New York some time in January, when he will be married to Miss Josephine B. Holman.

Mr. George Clapperton, traffic manager of the Commercial Cable Company, New York, arrived from Europe on December 21.

Mr. E. C. Bradley, vice-president of the Postal Telegraph-Cable Company, New York, is making a business trip to the Pacific Coast.

Mr. Thomas F. Clark, vice-president of the Western Union Telegraph Company, New York, spent the holidays at St. Augustine, Fla., where Mrs. Clark has for some time past been visiting.

Col. A. B. Chandler, chairman of the Board of Directors, Postal Telegraph-Cable Company, New York, has been confined to his home in Brooklyn by illness, but he expects soon to be able to return to his office.

Mr. Charles P. Bruch, assistant general manager of the Postal Telegraph-Cable Company, New York, distributes during the holidays hundreds of presents for his company, in the shape of complimentary franks.

Mr. Thomas A. Edison, the telegrapher, inventor and all-around wizard, has been reported of late as seriously ill. The report is not credited by those who know him, as they realize he has no inclination to experiment with time-consuming sickness.

Mr. Charles A. Tinker, general superintendent of the Western Union Telegraph Company, New York, has returned from North Carolina, where he spent three weeks hunting and fishing, which greatly benefited his health. Mr. Tinker proved himself to be an excellent shot, for on the first day's hunt he brought down a fine deer.

Mr. John H. Smart, superintendent of the Commercial Cable Company of New York, who has been acting traffic manager of the same interests for the past four months in the absence of Mr. George Clapperton, at 253 Broadway, has returned to his former office at 20 Broad street.

Mr. Henry C. Payne of Milwaukee, Wis., has become Postmaster-General in President Roosevelt's Mr. Payne has been closely identified with electrical pursuits for many years. He is an expert telegrapher, having mastered the art at an early age, but he never engaged in it for any length of time.

Colonel Robert C. Clowry of Chicago, vicepresident and general superintendent of the Western Union Telegraph Company, was in a train wreck on the Oregon Railway and Navigation Company's road near Dallas, Ore., on December 6. His private car was attached to the train, and was the only one that did not leave the track. Neither Colonel Clowry nor any of the passengers were injured. With Col. Clowry at the time of the accident were Mr. Frank Jaynes, superintendent at San Francisco, and Mr. C. H. Bristol, general superintendent of construction, Chicago, Ill. As a result of Colonel Clowry's visit to the Pacific Coast, the wire facilities of the company will be at once greatly increased. The great development of that section of the country, particularly the portion covered by the States of Oregon and Washington, makes it absolutely necessary to provide many additional wires in all directions in order to carry the rapidly increasing business.

#### To Push the Pacific Cable.

In a recent interview George G. Ward, vicepresident and general manager of the Commercial Cable Company, said that the possibility of legislation by Congress would in nowise interfere with the construction of the Pacific cable, work on which has already begun. Several cable bills have been introduced in Congress, providing for Government construction and control of a cable between the Pacific coast and the Orient, or for private construction under a subsidy from the Government. Mr. Ward advanced a number of reasons why, in his opinion, it would be unwise for the United States to undertake the construction of the cable, both from a practical as well as an economic point of view. The company which is now going ahead with the work, he said, has complied with all requirements and asks no aid from the

Government, but on the contrary assumes all responsibility.

"It would be inadvisable for the Government," he said, "to undertake to construct a cable. In the first place, there is the matter of expense, not only of laying the cable, but also of keeping it in repair. It is doubtful if the Government could make as complete working arrangements with connecting lines so as to give complete service, as could a private enterprise, for diplomatic and business difficulties would quite naturally surround such a project if undertaken by the Government. It should be borne in mind that the Commercial Pacific Cable Company will be obliged to make arrangements with existing companies for business between various points in the Orient and Europe. This country could hardly expect to secure landing privileges or concessions where exclusive grants have already been given in foreign countries, notably Japan, to cable companies now in operation, and it is doubtful if a working arrangement could be made with such companies by this Government looking to any division of the business that these foreign countries now enjoy. No diplomatic difficulties, however, would be in the way of a private corporation making such arrangements. The Commercial Pacific Cable Company assumes all responsibility in the construction and maintenance of the new cable, thereby relieving the Government of any expense whatever, either for construction or operation."

#### Cuban Telegraph Company Incorporated.

The Cuban Telegraph and Telephone Company, organized with a paid-up capital stock of \$2,000,-000 to construct and operate telephone and telegraph lines in Cuba and the West Indies filed articles of incorporation in Trenton, N. J., Dec. 13. The incorporators are Francis C. Prest, Edmund G. Vaughan, Edgar Park and William J. Patter-

## INCOM

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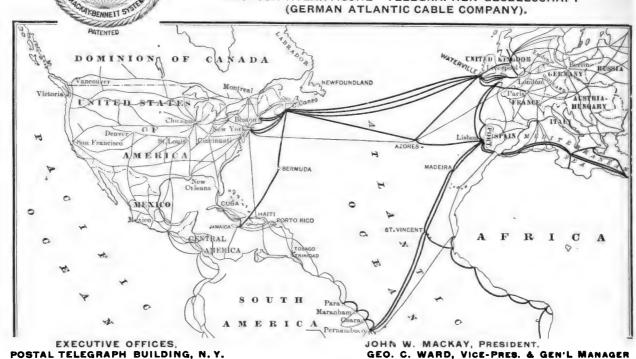
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# THE TELEGRAPH AGE

No. 14.

NEW YORK, JULY 16, 1902.

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#### SOME POINTS ON ELECTRICITY.

## Barclay's Direct Repeating Relay for Multiplex Circuits.

BY WILLIS H. JONES.

Every operator is familiar with the fact that the distinctness of the signals received on a sounder varies, to a great extent, with the speed of the sender, and that an alteration in the adjustment of the sounder will, in a majority of cases, alone restore such signals to their original value. This statement applies particularly to polarized relays, and demonstrates conclusively that that instrument is capable of doing much better work than is ordinarily obtained by the present standard arrangement.

With a view of eliminating, as far as possible, all losses due to second-hand delivery of signals, Mr. J. C. Barclay, electrical engineer of the Western Union Telegraph Company, has devised a method by which the respective armature levers of two polarized relays at a repeating station are made to deliver the multiplex main battery current directly to the circuits via an extra set of contact points, without the aid of other apparatus. Ordinarily the relay levers each operate a pole-changer controlled by a local battery, and the accuracy with which the current reaches the line necessarily depends upon a proper and permanent adjustment of that instrument. Mr. Bar-

clay's device is called the "Direct Repeating Relay," a theoretical illustration and connections of which is herewith shown.

His method has been in practical operation for some time on the New York and San Francisco overland and other long circuits, and the improvement to the service derived thereby has been so marked that it has been determined to introduce the arrangement at all important repeating stations throughout the country.

It will be seen by referring to the theoretical illustration that when the three-point switches A and B are turned to the left, the two standard pole-changers with their main battery connections are thrown out of operation. Simultaneously with the turning of the switch lever, however, the batteries disconnected via that route are shifted to an extra set of contact points belonging to the relay, where one prong of a double-lever armature acts as a pole-changer and carries the current direct to the main and artificial line coils of the relays in the usual manner.

For the purpose of clearness the diagram shows but one set of contact points and lever—those for the main battery connections. The complete Barclay relay, however, possesses two sets of each, as shown in the small cut D, one of which is employed, as stated, to operate the local circuit when the levers of the three-point switches are turned to the right. The relay is of the small Western Union standard pattern, and the twin lever armature is simply two bars fastened rigidly to a common yoke (see figure D), but, of course, thoroughly insulated from other parts of the apparatus.

When the attendant at a repeating station desires to balance, or speak to the distant office, he first turns the switch levers A and B to the right, which operation restores all the connections of the apparatus to our present standard arrangement. ment.

This move towards the utilization of latent power is undoubtedly in the right direction, and is but one of the many improvements contemplated. Mr. Barclay has been, for some time, making a special study of the weak spots in the electrical field of the telegraph service, and seems to be the possessor of many original and valuable ideas. Judging by the obvious merits of a number of contemplated improvements in apparatus and methods which he courteously disclosed to the writer, and which will be described in this journal from time to time, he is to be congratulated upon possessing the faculty of appreciating

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# SOME POINTS ON ELECTRICITY. Contemplated Improvements in Telegraph Apparatus.

BY WILLIS H. JONES.

It is really astonishing sometimes, when reminded by the installation of some new, yet simple, device, to think how long we have tolerated certain familiar annoyances, for no other reason than that those most discomfited thereby were apparently too indifferent or reluctant to make any strenuous effort towards reform through the proper channels.

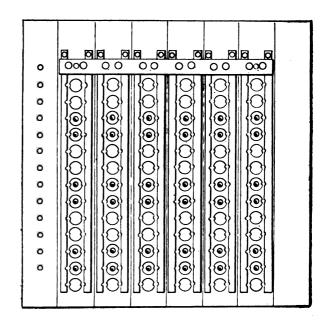
The officials of telegraph companies are not only willing, but anxious to make needed reforms whenever and wherever it can be shown that alterations are really practical, yet they are frequently unjustly credited with indifference by inventors and schemers whose proposed methods, many of which are really good, are side-tracked. The point seems to be too generally overlooked by them that the adoption of their methods would, in many cases, render useless perhaps many thousands of dollars worth of standard apparatus now in use. The erroneous impression seems to prevail that the discarded material might be utilized in branch and suburban offices.

A little reflection, however, should convince any fair-minded person that such a disposition would certainly be a step in the wrong direction. Apparatus which is not satisfactory in the main office

under the careful attention of expert attendants is surely not the proper thing for less experienced employes to handle.

Of course, when a new device is really valuable financially, despite this drawback, the replacement of standard apparatus with a new pattern will follow as a matter of business, but on that condition only.

As an example of valuable apparatus improvement with practically no additional expense, Mr. J. C. Barclay, electrical engineer of the Western Union Telegraph Company, New York, again comes to the front with a new method of switchboard allignment. His arrangement will certainly be ap-



preciated by chief operators generally, and will greatly lessen the chances of accidentally running foreign wires into each other on one row of disks, and the method will require no alteration whatever in the mechanical construction of the present standard switchboard. Nearly all methods heretofore offered involved the reconstruction of all, or at least certain parts of the structure, hence their rejection.

The accompanying diagram illustrates the manner in which a safe allignment is insured. A glance will show that a mistake cannot be made except through inexcusable carelessness. The method is to give the face of every other pair of disk rows a concave or saucer-like surface, leaving the companion pairs perfectly flat, as heretofore constructed. Thus, should the upper concave row of disks in any

pair be selected for the purpose of joining two wires together across the board, the chief operator making the conection would have to be at least four rows out of allignment before he could find another row of similar face. Such a mistake would obviously be detected even at long range and remedied immediately.

As heretofore stated, this method involves no new apparatus whatever. The disks on old switchboards can easily be marked where they stand without in the least interfering with working circuits. It is the intention of the company mentioned to make this method of allignment standard for all new switchboard apparatus, both terminal and intermediate.

#### Business Notices.

Within three hours of New York are some of the most delightful mountain resorts of the East, ranging in height from 1,600 to 2,200 feet. They are situated in the Pocono Mountains of Pennsylvania, on the main line of the Lackawanna Railroad, which operate a special fast express service on Friday and Saturday afternoons for business men desiring to spend Sunday with their families. These trains return Sunday night and Monday morning, respectively, affording a comfortable week-end escape from town. Interesting information about these places will be found in Mountain and Lake Resorts, a little book just issued by the Passenger Department of the Lackawanna Railroad. It is handsomely illustrated and contains a series of delightful sketches, entitled The Experiences of Pa. Send five cents in stamps to T. W. Lee, General Passenger Agent, New York City, and a copy will be mailed.

The Standard Telephone and Electric Company, of Madison, Wis., was one of the first companies organized in the United States to manufacture telephone apparatus for the use of independent exchanges and toll-line companies, and the various lines of equipments manufactured by this company can be found in every section of the United States and in many places abroad. A high grade of excellence is always maintained, both electrically and mechanically, in all lines of telephone apparatus made by this company, and wherever used a good service is always assured. "Standard" apparatus is recognized everywhere as being among the best and most reliable upon the market. The company makes a specialty of furnishing switchboards and long distance telephones to telegraph superintendents of the leading railroad companies, among which are the Union Pacific, Santa Fé, Northwestern, St. Paul, Northern Pacific, Illinois Central, Great Northern, Burlington, Pennsylvania, Baltimore & Ohio, Lake **Shore** and others.

#### Recent Telegraph Patents.

A patent, No. 704,023, has been granted to C. E. Fritts, of New York City, for an electric telegraph system, consisting of lines divided into sections and connected in series by condensers, the transmission of signals being effected by induction.

S. R. Wright, of Morton, N. Y., has been granted patent No. 704,165, for an automatic telegraph key closer.

A United States patent No. 703,892, has been granted to S. G. Brown, of London, Eng., to cover his system of multiplex telegraphy.

A patent, No. 703,810, has been granted to J. N. Newsom, of St. Louis, Mo., for a telegraphically operated train signal. By means of this invention a train despatcher or signal man can set the semaphore signals by merely sending over the circuit Morse characters properly grouped to control the respective signals.

## The Old Time Telegraphers' and Historical Association.

John Brant, secretary of the Old Time Telegraphers' and Historical Association, reports that there will be a large attendance from New York and vicinity, also from Chicago and Pittsburg at the reunion, at Salt Lake City, Utah, September, 10,11,12. The programme of the meeting will be sent out to members in a few days. It is expected that a number of members from the Pacific Coast will be present on the occasion. This will be the first meeting ever held west of the Rocky Mountains, which will give to the members of the Far West an unusual opportunity to meet their Eastern brethren.

#### Legal.

The City of Newark, N. J., has refused to grant the Postal Telegraph-Cable Company license to lay its wires underground without the company agreeing to give the city two per cent. of its gross receipts. At the same time the city has ordered the company to bury its wires.

An annual license fee imposed by a borough on a telegraph company of \$1 for each pole and \$2.50 for each mile of wire maintained within the borough is not so obviously unreasonable as to render the ordinance void. This is the recent decision of a higher Pennsylvania Court affirming the decree of a lower court. If this brief decision stands the test of the Supreme Court, the telegraph companies will have to go out of business.

#### Organization.

The Western Union men discharged by the Chicago, Ill., management on account of activity in brotherhood matters, are being hired by the Postal company.

Mr. I. J. McDonald, who was recently discharged by The Associated Press because of his activity in brotherhood matters at Chicago, is now employed by the "American" of that city.

Boston, Mass., has organized a local branch of the International Union of Commercial Telegraphers with eighty members; Milwaukee with thirty-seven members; Kansas City with thirty-five members; Cincinnati, San Francisco and Springfield, Ill., have also established branches.



#### Personal Mention.

Col. Robert C. Clowry, president and general manager of the Western Union Telegraph Company, New York, has filed an application with Francis W. Jones, president, for membership in the Magnetic Club.

Mr. Henry D. Estabrook, of Chicago, Ill., has been appointed an assistant to Geo. H. Fearons, the general attorney for the Western Union Telegraph Company, with headquarters in New York, to take effect on September 1.

Mr. J. C. Barclay, electrical engineer of the Western Union Telegraph Company, New York, has returned from a Southern trip, which included visits to Lynchburg, Chattanooga, Atlanta, Augusta, Savannah and other points. As a result of these visits, storage battery plants will be installed in Charlotte, N. C., Augusta, Mobile, Montgomery and Birmingham. New specially constructed swithchboards will be installed at Chattanooga and Birmingham, and an up-to-date dynamotor plant will replace the present storage battery at Atlanta, Ga., and other improvements in the service in the South will follow.

#### Resignations and Appointments.

Mr. H. H. Arthur has resigned from the Western Union at Pittsburg, Pa., to accept a position as manager of the telegraph department of the Santa Fé Railroad general offices, at Chicago, Ill.

Mr. Charles B. Slawter, for many years connected with the Easton, Pa., office of the Western Union Telegraph Company, has been promoted to the managership, vice C. B. Sharp, resigned.

Mr. George Maguire has been appointed cashier of the Western Union Telegraph Company at Galveston, Tex., vice Gustav Schultz, promoted to the managership. Mr. Maguire is an old employee of the company.

Mr. Frank C. Woodworth, manager of the Western Union Telegraph Company at Great Falls, Mont., has resigned to enter the commission business and will represent the firm of A. J. Cummings & Co., commission brokers.

Mr. W. D. Landon, assistant foreman of the Western Union Telegraph Company at White River Junction, Vt., has been promoted to be assistant general foreman for the New England district, with headquarters at Boston, Mass.

Mr. Bert H. King, manager at Ithaca, N. Y., has been appointed manager of the Postal Telegraph-Cable Company's office at Elmira, N. Y., vice Charles L. Jones, resigned, to devote his time to the manufacture of proprietary medicines.

#### Recent New York Visitors.

Mr. W. W. Splane, superintendent of telegraph of the Standard Oil Co., Oil City, Pa.

Mr. J. G. Splane, manager of telegraph department Standard Oil Co., Pittsburg, Pa.

Mr. E. J. Nally, general superintendent of the Postal Telegraph-Cable Company, Chicago, Ill.

Mr. W. S. Logue, general Western manager of the Edison Manufacturing Company, Chicago, Ill.

Mr. C. M. Baker, assistant general superintendent of the Postal Telegraph-Cable Company, Chicago, III.

#### General Mention.

Mr. W. E. Peirce, of the Washington, D. C., Western Union office, has been transferred to Lynchburg, Va., temporarily as quad man. Mr. Peirce has recently taken an electrical course in one of the colleges.

Mr. W. A. Craig, one of the best known gentlemen in telegraph circles at Houston, Tex., now connected with the Postal Telegraph-Cable Company of Texas, is acting as agent for Telegraph Age at that point and vicinity. Mr. Craig desires his friends not to overlook him when they have business connected with Telegraph Age to place.

One of the best known dentists in New York is Dr. Bissell B. Palmer, whose office is located at The Pocantico, 1690 Broadway, New York. Dr. Palmer left the telegraph service in New York City in 1885 to practice dentistry. He was well-known as a telegrapher and his success in his adopted profession is a source of gratification to a large circle of friends.

#### The Cable.

The cable steamer Silvertown, carrying the first section of the Pacific cable, has sailed from London for San Francisco and the work of laying the cable between that city and Honolulu will commence immediately on the ship's arrival.

The Commercial Pacific Cable Company signed a contract with the Telegraph Construction Company of London, Eng., on July 16 for the manufacture and laying of its cable from Honolulu to Manila, touching midway at Guam. The Construction Company guaranteed to complete the cable by June, 1903, providing the Government surveys can be obtained.

#### The Railroad.

Mr. F. J. Spaford, formerly superintendent of telegraph for the Burlington, Cedar Rapids & Northern Railroad Company, has been appointed assistant superintendent of telegraph for the Chicago, Rock Island & Pacific Railroad Company, with headquarters in Chicago.

Mr. Horace E. Chace has been appointed assistant superintendent of telegraph, vice Andrew Smith, deceased, of the Atchison, Topeka and Santa Fé railroad systems, on all lines west of Albuquerque, with headquarters at Los Angeles, Cal.

Lost yesterday, somewhere between sunrise and sunset, two golden hours, each set with sixty diamond minutes. No reward is offered, for they are gone forever.—Horace Mann.

TELEGRAPH AGE will furnish operators with just the kind of practical information they need.



#### Compulsory Arbitration.

Judge Murray Tuley, in a paper on "Compulsory Arbitration: Is it Practicable orAdvisable," read on July 18 before the convention of the State Bar Association in Chicago, Ill., just after he had been elected president, declared in favor of the settlement of labor disputes by the courts. He said this could be done if the courts would sustain legislation authorizing the extension of the police power in all such controversies.

"Experiments with laws for compulsory arbitration of labor disputes," he said, "have shown that they tend to destroy the manhood and individuality of employer and employe alike, and that they aid the growth of Socialism. In New Zealand, where such a law has been tried, the officials have reported that petty grievances have been aggravated and great disputes multiplied.

"It is therefore my opinion, from a thorough study of the situation, that strikes and lock-outs must continue until voluntary conciliation and arbitration are arrived at; until capital comes to recognize the rights of labor to a share of profits derived

from their joint operation.'

Judge Tuley declared it would be a long time before a first-class power or nation would agree to arbitrate with a fifth or tenth class power, and there must first be a great change in their conception of moral principles on the part of the strong in dealing with the weak.

"The strike is the only weapon of the worker," he continued. "When it is unaccompanied by violence it is a perfectly legal weapon, but in all but a few rare instances it seems impossible to have a strike without some violence."

This the speaker attributed to the unemployed and and vicious elements rather than to the body of strikers, who, he held, deplore violence and long ago recognized that might could not win a strike.

"The great difficulty is that neither labor nor capital has realized the community of interests that exists between them. But I want to say that greater heroism and devotion to principles have never been shown by the soldiers in an army from Thermopylae down to date than that of the men in the army of organized laboring men. They have a twelfth commandment. It is, 'Thou shalt not take thy brother's job,' and they keep that commandment. With some of them it is their only commandment.

"But you would cease to wonder that excesses are sometimes committed if you were to put yourself in their places for a time. Until a few years ago a strike was a purely local matter, but this great federation of laboring men, extending into every corner and every industry in our land, and the development of the railway and the telegraph has changed all, and it is now a National or international affair.

"This anthracite coal strike, for instance, is costing the owners and men a million dollars a day—about what the Spanish war cost. Nobody can conceive the indirect losses—perhaps double or treble. It, or any similar strike, may continue until commercial chaos follows and a panic ensues with results more disastrous to the Nation than any war."

Proceeding, Judge Tuley said:

"Here we have the spectacle of one John P. Morgan, who absolutely controls a billion-and-a-quarter-dollar steel combine, this general of finance, before whom the captains of finance cringe and fawn, before whom royalty bows obsequiously, and on whose life great men of finance take out insurance policies, fearing the awful results to finance from his death. This man who stood hat in hand and heard the plea of great financiers and the representatives of working men for the arbitration of the miners' case, walked away indulging in a long supercilious stare.

walked away indulging in a long supercilious stare. "Kings have gone mad. Suppose the brain of this man, with his thousand of millions of dollars of interests should give way. Suppose he should arrogantly defy this great federation of labor and precipitate a general cessation of labor in every line. It is believed now he is behind the coal barons in their declaration to the miners that there is 'nothing to arbitrate.' It is believed also by many that the Constitution of the National Civic Federation was suggested by him.

The disposition to arbitrate appears no longer to exist. The larger the corporation the less it seems to be influenced by humanity. It is only a question of dividends; the smaller the wages, the larger the dividends, and vice versa. The laborer seems to be considered merely a part of the machinery in the

establishment.

"The nationalization of railroad, telegraph and telephone lines might do a great deal toward solving the problem. Shall these corporations and employers be placed under public control and restraint? Shall they be forced in some way to submit their disputes to the courts of justice as all other disputes are?

"I believe a solution lies in this line of action. The courts will eventually rise to the necessity of holding that legislation can be enacted to meet the conditions, and thus make the public welfare the supreme law."

#### A New Edition of Phillips' Code.

The Phillips Code, by Walter P. Phillips, that ever popular method of shorthand arranged for telegraphic purposes, has once again made its reappearance in a new edition in familiar form, from the press of Telegraph Age. The work has been carefully revised and brought strictly up-to-date by Mr. A. P. Velie, a gentleman for many years identified with The Associated Press, New York, and thoroughly competent for this task. With the necessary additions it now contains, the volume presents a compendium of telegraphic abbreviations of such value that as a matter of fact, no operator really can afford to be without it. In truth, the demand for the book has steadily increased from year to year, and the work has long been considered standard. The new volume is everywhere received with unstinted praise, and orders for the book are very large. The price is \$1 per copy, and all orders should be addressed to J. B. Taltavall, Telegraph Age, 253 Broadway, New York.

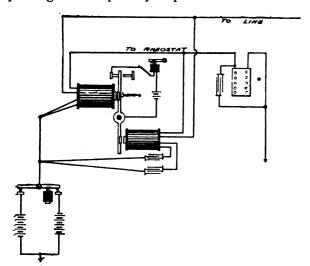
Operators will find a fund of practical information in every issue of Telegraph Age.



#### Bridging Over the Periods of Reversals.

BY D. B. GRANDY, OF ST LOUIS, MO.

I enclose herewith a sketch of a method of bridging over the period of reversal in the neutral relay of a quadruplex, with which I obtained results I have never seen equalled by any other method. The sketch shows only the neutral relay with its connections. The relay has two magnets acting in the same direction on a common armature. Both magnet coils are differentially wound. The upper magnet is connected to line and rheostat in the usual manner. The lower magnet is also connected to line and rheostat, but in each circuit of this magnet a condenser is introduced, of sufficient capacity to produce the required effect on the magnet. The balance in the lower magnet will be disturbed only by changes in the polarity or potential of the incom-



METHOD OF BRIDGING OVER THE PERIOD OF REVERSAL.

ing current. During reversals of that current, at the moment of "no current," the condenser on the line side of the auxiliary magnet discharges, momentarily magnetizing its core and holding the armature during the period of no current in the upper, or regular, relay magnet. This action of the auxiliary magnet occurs precisely at the moment when it is needed, namely, at the time of "no current" from the line; and as its core is free from magnetism except when momentarily affected by a disturbance in the balance of its condenser circuits, it is always ready to respond to the charge and discharge of the condenser connected to line.

In the Smith arrangement, the condenser circuit being on the same core with the line and rheostat circuits, its only effect was to hasten the change in the polarity of the relay core, so that the actual moment of "no current" remained, though shortened.

In the F. W. Jones arrangement, the action of the auxiliary induced current from the "Inductorium" comes too late to be of the best efficiency, and causes a tendency to "stick" in the relay action as a whole.

The arrangement shown was patented by me in 1895 and by its use messages were actually received in St. Louis on the neutral side of a Chicago quadruplex with a local sounder connected to the front contact points as shown. The only modification from the ordinary relay being a light spring on the contact point of the relay lever. Aside from a slight jar, the signals were perfect, and entirely readable, although of course not a practical success, except to illustrate the efficiency of the arrangement in bridging over reversals.

#### Telegraph Statistics.

Some comparative tables concerning the telegraph service in several European cities are published by the Electrical Review of London. One table shows the average time occupied in each city by a message at the various stages of its transmission; the delay occurring in the transmitting office is always the largest; next comes the time required for transmission; the delay in the receiving station is smallest. A second table shows the average number of messages per day for different cities, the approximate number of staff and the average daily work of each member of the staff. The last figure is largest in Budapest and smallest in Bucharest; in Budapest the number of telegrams per employee per day averages 96.8, in Bucharest 33.3; in London and Paris the average number of telegrams daily are 475,000 and 120,000, respectively; the number of staff, 5,000 and 1,300, and the number of telegrams per employee per day, 95 and 92.3.

#### The Telegraphs of Salvador.

A recent report of the Director-General of the Department of Telegraph and Telephones of the Republic shows that there were 138 telegraph and 61 telephone offices in operation in Salvador in 1901, as compared with 117 telegraph and 49 telephone offices in 1900. The number of employes in 1901 in the two branches of the government service referred to was 433. The telegraph system of the country in 1901 consisted of 2,098 miles of telegraph lines, as compared with 2,029 miles in 1900. There were 1,032 miles of telephone lines in operation in 1901, as compared with 959 miles in 1900. The total length of the telegraph and telephone systems of the nation in 1901 aggregated 3,130 miles.

T. M. B. ASSOCIATION.—Assessment No. 396 has been levied to meet the claims arising from the deaths of James H. McNally, at Buffalo, N. Y.; Wayne H. Graves, at St. Louis, Mo.; Millard F. Campbell, at Wilburton, I. T.; John H. Emerick, at Brooklyn, N. Y., and Frank J. Temple, at Bangor, Me.

A Brooklyn operator a few night since before starting in to send a lot of "red" messages to New York, said, "Here are a lot of strawberries." The New York operator instantly replied, "Minute, till I get some short cake blanks to put them on."



#### Telegraphy and Photography Are Twins.

BY FRANCIS W. JONES.

Many telegraphers will remember the appearance of a very handsome and useful Handbook of Electrical Diagrams which appeared over a quarter of a century ago, the authors being Charles H. Davis and Frank B. Rae. The superb plates were from diagrams made by Mr. Davis, whose fine artistic eye and hand were very much in evidence. It is a pleasure to note the phenomenal advance Mr. Davis has made from what must now seem to him a very crude beginning but what contained the latent germ of his artistic talent. He stands at present as one of the leading photographers of the world with a studio, under the name of Davis and Sanford, in Fifth avenue, New York. His display of photographic samples is a dream of loveliness and perfection of the art, and his grand mansion on Riverside Drive and 80th street, occupied by himself and a most charming wife, is substantial evidence of the value in which the public for several years has held his professional services. This good fortune falling to Mr. Davis, an old time telegrapher, is peculiarly fitting when it is remembered that, Prof. S. F. B. Morse, the inventor of the telegraph, was the first one to bring to America the great discovery of Daguerre of France. description of Daguerre's process, which was then new, was communicated by letter from Paris by Prof. Morse to his brothers in New York and was published in the New York Observer, April 20. 1839, two years after Morse had constructed his first telegraph model. It took fifteen minutes exposure of a plate at that time to secure a picture and this was trying on the eyes of the sitter. On this account Daguerre was skeptical of ever being able to take portraits of living persons. For out of door views Prof. Morse said in above letter: "The pictures are produced on a metallic surface about seven by five inches and resemble aquatint engravings for they are simple chiaro-oscuro and not in colors. But the exquisite minuteness of the delineation cannot be conceived. No painting or engraving ever approached it. For example, in a view of the street a distant sign would be perceived and the eye could just discern that there were lines of letters upon it, but so minute as not to be read with the naked By the assistance of powerful lens, every letter was distinctly legible, and so also were the minutest breaks and lines in the walls and buildings and pavements.

In 1839 the French Government purchased from Daguerre his most wonderful art and presented it to the world for its free use and enjoyment. Several years previously a Frenchman named Niepce had succeeded in getting crude outlines of natural objects upon sensitized plates, but could not fix them permanently. From this Daguerre proceeded to success. Niepce had died before this, but through possession by Daguerre of the Divine quality of gratitude together with his other great gifts, he recognized the continued validity of a contract he had with Niepce and shared with his widow and

son the fruits of the perfected discovery due alone to Daguerre.

As soon as the process was made public, Daguerre sent all the necessary information to Prof. Morse, who put the art into use without delay in "the palace of the Sun," erected by his brothers on top of the Morse building, corner of Nassau and Beekman streets, New York City. Prof. Morse was also assisted by his colleague, Prof. John W. Draper of the New York City University, who was instrumental in perfecting the process of securing portraits.

While Prof. Morse was in Paris, in 1839, a very curious thing happened. He had invited Daguerre to examine his telegraph system which he had on exhibition and also asked permission to see Daguerre's wonderful picture—taking discoveries which were creating the most intense excitement in the scientific world. On March 7th, Prof. Morse made his visit to Daguerre's rooms in the Diorama, and the visit was returned by Daguerre at noon the next day to see the Morse telegraph, and while there the Diorama was burned down and with it Daguerre's house and all his experimental apparatus and papers, but his marvelous brain preserved the "blessed art that can immortalize."

#### The Irony of Fate.

Victor Nimault, formerly an operator in the employ of the French telegraph service, died recently on Devil's Island, the French convict settlement off Cayenne. He was the man who it is claimed invented and patented the telegraphic system since used in France and known as the multiple transmission system. This was thirty years ago. Coincident with his invention M. Baudot invented a somewhat similar apparatus, which, it is said, because of official countenance, found favor with M. Raynaud, the director of the telegraphic department, and was adopted. Stung by the injustice done him, and defeated in several suits brought to establish his claims. Nimault shot and fatally wounded M. Raynaud, an act for which he was tried, sentenced to imprisonment for life, and in due course was sent out to Thirty years having elapsed, he was recently pardoned by President Loubet. A subscription made by his friends in France left by the same boat which took out his pardon. But it arrived too late, for Victor Nimault, who had been ill for some time, died the day before port was made. of it all is that poor Nimault's system has been in use in France for many years now; for, after he was sentenced, it was found to be preferable to the one adopted and approved by Raynaud, the then director of the telegraphic department.

#### Directory of Telegraph Organizations.

International Association of Municipal Electricians. Next meeting, Richmond, Va., Oct. 7, 8 and 9.

Old Time Telegraphers and Historical and United States Military Telegraph Corps Association. Next meeting, Salt Lake City, Utah, September 10, 11 and 12.

#### Henry H. Ward.

The transfer of Mr. Henry H. Ward, who has acted as cashier of the Western Union Telegraph Company, at 195 Broadway, N. Y., for over a quarter of a century, to the American District Telegraph Company, removes from the telegraph service a well known personality, an able official, systematic and untiring in his methods, and an affable gentleman who has gained a host of warm and steadfast friends. Mr. Ward is fully entitled to be referred to as an "old-timer," and in this case the term carries with it an endearing sense of comradeship to many, for it was back in the spring of 1848, fifty-four years ago, that the now retiring cashier commenced his telegraph life at Springfield, Mass. At that time the telegraph system between New York and Boston consisted of but a single wire with way stations at Stam-



HENRY H. WARD,

Who has been transferred to the American District Telegraph Company.

ford, Bridgeport, New Haven, Hartford, Springfield and Worcester. It was to the latter place that the subject of our sketch was soon transferred.

The manager at Worcester was a dignitary known as "Professor" Strong, a man who was credited with knowing everything about electricity. He was also something of a mechanic and illustrated his ability in manufacturing small brass switches for moving upon brass screw heads whereby complete results in changing instruments and in switching wires were obtained. The young operator gained experience by assisting in these manufactures and in their application to the lines. A year had not passed when a manager was needed for temporary service at Norwich, Conn., to which place Ward was sent, a month later being placed in the New York office then at No. 5 Hanover street. Three months in

New York did much to develop young Ward as a telegrapher, and at the  $\epsilon$ nd of that period he was transferred to Boston, and soon after to Portland, Me., as manager. That city was considered an important post, for Portland was the repeating point for all down east business. There were then no repeaters, but everything was copied and re-sent. Steamer news from Halifax was an important and voluminous matter to handle and waiting at night for it at fifty cents per hour after 9 o'clock, was a thing to be appreciated, inasmuch as salaries in those days were ranging from but \$300 to \$400 per annum. At Portland, in 1850, Mr. Ward began receiving messages by sound much to the wonder of L. L. Sadler, the superintendent.

In 1851 Mr. Ward was appointed "first operator" in the Boston office, taking the place of the renowned "Billy" Porter. There were then but two Morse wires to New York, one for "way," the other for "through" business. Registers and paper were commonly used. The through wire was supplied with a copyist. Work by sound was not very general but from time to time was practiced, although the use of paper in the registers was required, and reading by sound was prohibited by the officials.

In 1863 ...Ir. Ward was called to the New York office, then at 145 Broadway. The growth of line and absorption of opposition and connecting companies had progressed. At this period the line east and south of New York were controlled by the American Telegraph Company. The western business was handled by the New York, Albany and Buffalo Telegraph Company.

Mr. Ward continued with the American Telegraph Company as assistant manager and manager of the general office until 1865, when the appointment of superintendent of the Metropolitan District was conferred upon him.

In 1866 the Atlantic cable having been brought to successful operation, he was appointed superintendent of the cable company's affairs. He represented their interests until 1874, when he was made secretary and treasurer of the Gold and Stock Telegraph Company, a position he relinquished in December, 1875, to accept the appointment from which, after years of faithful service, he now withdraws.

#### Postal Telegraphy.

There are numerous considerations that will make the American people pause long before giving their approval to the scheme of Government ownership of the telegraph system, says the New Orleans States. The public is not unmindful of the fact that the Government has been in the habit of stopping the running of Sunday mail trains and the delivery of the mails on Sunday. In view of this fact it is reasonable to assume that in the event the Government takes over the telegraph lines the offices would be closed on Sunday for both newspaper and private despatches, as the Sunday mails are now stopped wherever practicable.



#### Retirement of Mr. Merrihew.

Mr. James Merrihew, general superintendent of the Southern division of the Western Union Telegraph Company, New York, has resigned, to take effect on September 1.

Mr. Merrihew, who was born at Wilmington, Del., November 18, 1837, began his telegraphic career as a messenger boy in 1849 in his native city. He has never been out of the telegraph



JAMES MERRIHEW, OF NEW YORK.

Retiring General Superintendent of the Southern Division of the Western Union Telegraph Company.

business and through years of continuous service in the Magnetic, Washington and New Orleans and Western Union Telegraph companies as messenger, operator, manager, district supefintendent, assistant general superintendent up to the position of general superintendent his advancement has been constant, and the reward of true merit. Always an efficient, painstaking courteous official, he has made a fine record, and now as he nears his sixty-fifth year and retires from the service to which he has devoted his life, he carries with him into retirement and a well-earned period of rest, the cordial good will and respect of all associates and hosts of friends.

#### Resignations and Appointments.

Mr. S. R. Crowder, of Richmond, Va., has been appointed electrician of the Southern division of the Western Union Telegraph Company.

Mr. M. W. Rayens, superintendent of the American District Telegraph Company, New York, has resigned his position to enter other business.

Mr. J. D. Flynn, for the past nine years superintendent of the Western Union Telegraph Company, Pittsburg, Pa., has resigned.

Mr. J. W. Walsh, of Providence, R. I., has been appointed to a position in the New York bureau of The Associated Press, vice E. A. Goshert, resigned.

Mr. A. C. Johnson, chief operator of the Postal Telegraph-Cable Company, Memphis, Tenn., has resigned to accept a position with the same company in the Chicago office.

Mr. W. A. Harris, manager of the Western Union Telegraph Company, New Haven, Conn., has resigned. Mr. T. E. Russell, of Meriden, Conn., has been appointed acting manager in his stead.

Mr. R. C. Bliss, formerly manager at Springfield, Ohio, has been appointed manager of the Western Union Telegraph Company at Cincinnati, Ohio, vice C. E. Page, promoted to the superintendency at Boston, Mass.

Mr. H. E. Roberts, superintendent of the Western Union Telegraph Company's real-estate in New York City, has been appointed superintendent of the American District Telegraph Company, New York, vice M. W. Rayens.

Mr. E. B. Saylor, for the past twenty years chief operator of the Western Union Telegraph Company, Philadelphia, Pa., has been appointed superintendent of the same interests, with head-quarters at Pittsburg, Pa., vice J. D. Flynn.

The Southern division of the Western Union Telegraph Company has been merged into the Eastern division, and Mr. Belvidere Brooks, general superintendent of the latter, has now supervision over the two combined divisions. His head-quarters will remain at New York as at present.

The electrician's office of the Western Union Telegraph Company, Boston, Mass., has been abolished and Mr. J. W. Larish, who has occupied the position of electrician of the company for the New England States, has resigned to enter other business. Mr. Larish was offered a position in the electrical engineer's office in New York, but he preferred to remain in Boston.

T. H. Reynolds, aged forty-two years, manager of the Western Union Telegraph Company, San Francisco, Cal., committed suicide on September 27. He had held the office of manager since January 1, 1901, and his record was a good one.

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#### NEW YORK, September 1, 1902.

Note.—We desire to state that back numbers of this paper, those issued more than six months prior to any current date, will be charged for at the rate of twenty-five cents apiece when they can be furnished. This price is fixed because of the necessarily limited stock we carry, and of the difficulty we commonly have in filling an order. Oftentimes the request is for papers of a more or less remote date, with the expectancy of being supplied at but ten cents a copy, whereas in order to obtain the desired issue we are ourselves frequently obliged to pay the larger sum, or even more. The growing value of complete files of TELEGRAPH AGE should cause our readers to carefully preserve their issues.

Once again there are rumors of a merger between the Western Union and Postal Telegraph-Cable companies, together with that of telephone interests.

#### The Folly of Indifferentism.

We have frequently indulged in what has been intended, on our part, as a "heart to heart" talk with operators, counseling them to a more thorough and practical study of the telegraph in its every aspect, the business in which the most of them have permantly embarked, as a necessary and fundamental preparation for their life work. Many have appreciated our disinterested remarks, have acted on the suggestions made, and as a consequence, so far as we know, nine out of ten have found reward in advancement with accompanying increase of pay.

Yet, on the other hand, as much as we regret to say it, comparatively little interest appears to be taken by the majority of telegraph operators in

their calling. As a potent illustration of how indifferent they are to study the interests of the telegraph service, it is stated, strange as it may seem, that there is scarcely an American operator who has ever attempted to master the operation of the siphon recorder, the instrument that is used on all Atlantic cables. In almost every cable office in New York these instruments are found, but they are operated almost exclusively by foreign telegraphers. While American operators are employed to some extent by the cable companies, but few of them have seen fit to study the operation of the recorder.

This instance is one of many that comes to us in which operators fail to measure up to necescary service requirements. Why is it so? When it is remembered that the cable service pays better wages than the land lines, it will readily be seen that operators are carelessly indifferent apparently to their own good.

President Roosevelt in conceding terms to the Pacific Commercial Cable Company, as published in a previous issue, stipulates that the cable company shall employ none but American operators. The question arises: How can the company procure American operators to work their cable when such operators are not to be found?

Another instance of failure, common in almost every office in this country, to record against the operator is his neglect to acquire a practical knowledge of the switchboard. Good wire chiefs are in constant demand, yet there are few men competent to fill these important positions. It is not an idle question to ask why such is the case, for operators frequently bewail the narrow limits of their environment and the opportunities of promotion. It cannot be denied that operators, as well as those in other walks of life, will secure promotion exactly in proportion as they may be deserving of it. An equivalent, of course, must be rendered; this is a fundamental law; but capapility will surely receive recognition.

It may be remarked in this connection that if the telegraph companies fail to recognize and reward ability found in the ranks that outside interests will do so. It is but a short and natural step from the telegraph to other fields of electrical endeavor, whose constantly expanding operations offer no mean opportunities to the intelligent man. Corporations have no time to educate the individual; each man must stand or fall, according to his own fitness.

#### The Cable.

"The Submarine and Land Telegraphs of the World" is the title of a monograph prepared by the Treasury Bureau of Statistics. It presents some information regarding the submarine telegraphs of the world which is especially interesting at this time. It shows that the submarine telegraphs of the world number 1,750. Their aggregate length is nearly 200,000 miles; their total cost is estimated at \$275,000,000, and the number of messages annually transmitted over them is more than 6,000,000.



#### Death of Superintendent Donner.

Mr. J. B. Donner, superintendent of telegraph of the Southern Pacific Railway, San Francisco, Cal., died of consumption at San Antonio, Tex., on August 14. Mr. Donner had been a sufferer of



J. B. DONNER.

Late Superintendent of Telegraph of the Southern Pacific Railway.

this dread disease for a long time. The interment took place at Algiers, La., his old home. Mr. Donner had a national reputation as an efficient railway telegraph superintendent because of the improvement in the telegraph service he had brought about on the vast railway system of his company.

#### Obituary Notes.

Charles H. Sawyer, a telegraph operator of Boston, Mass., died on August 9.

Lee Morgan, aged 32 years, an operator at Blackstone, Va., died on August 21.

George W. Printz, who was chief telegraph operator at the headquarters of Gen. Robert E. Lee during the civil war, died at Beverly, W. Va., August 16, aged sixty-two years. Col, W. H. Taylor, now president of a bank at Norfolk, Va., who was a member of General Lee's staff, says that he knew Mr. Printz well, that "Mr. Printz was an operator at army head-quarters while we were around Petersburg in 1864 and 1865. General Lee and staff, toward the close of the war occupied Mr. Turnbulls' house a short distance from Petersburg and had his instrument up stairs. I was busy with him sending orders over the wire on April 2, 1865, in anticipation of the evacuation of our lines when a shell or shot crashed through the house. Printz told me he could operate the instrument no more, and, indeed, it would have been unwise to have remained longer, so I directed him to detach the instrument and we left the

house together. I had my horse awaiting me and one for him. I told him to mount and make his way to Petersburg. I rode off to join General Lee and as I glanced at Printz, a shell or shot cut the legs off his horse and he fell with his instruments. Picking himself up he started to walk to the city. I never had the pleasure of meeting him after that, although I have often wished to do so and learn what became of him. The house was burned soon after we left it."

#### Personal Mention.

Col. A. B. Chandler, chairman of the Board of Directors of the Postal Telegraph-Cable Company, was again at his office in New York for a few days last week, coming from his country home at Randolph, Vermont.

Col. R. C. Clowry, president; Mr. B. Brooks, general superintendent and Mr. J. C. Barclay, electrical engineer of the Western Union Telegraph Company, New York, recently visited the Baltimore and Washington offices of that company.

Mr. Frank C. Mason, the well known superintendent of telegraph for the Borough of Brooklyn of the New York Poice Department, in anticipation of his retirement in 1894, after years of active service, has purchased a farm of eighty acres near Utica, N. Y., which he is preparing for a Summer home for himself and family, when greater leisure will enable him to enjoy its attractions. To show how thorough are his preparations he has a force of men now at work making the improvements he deems necessary, one of which will be an electric light and power station for lighting the house, stables and grounds and to provide power sufficient for pumping, cutting feed for stock, etc. In the meantime he has disposed advantageously of several of his inventions in police signal telegraph apparatus to a New York company in which he has become a stockholder. It will thus be seen that Mr. Mason proposes to take life quietly in the near future.

#### Telegraph in Alaska.

Gen. A. W. Greely, chief signal officer of the army, who has just returned from Alaska, reports that before the end of the year Alaska will be connected with the United States by wire. In two weeks, he says, many hundred miles of telegraphic communication will have been established in that territory between the coast towns and those remote in the interior. Gen. Greely has been inspecting the operations in regard to telegraph lines.

"This," he said, "will for the first time make it possible for intercommunication to be had at a small expense between those portions of the territory where previously correspondence could be had only by mail, and where letters and answers could not be exchanged more than twice or thrice

during the year."

#### The Pension Fund Proposition.

THE NEXT MEETING WILL BE HELD AT THE PRESS CLUB, NEW YORK, NOV. 18.

The following letter to the Editor, dated August 19, and signed by Francis W. Jones, Chairman of the Pension Committee, explains Itself:

"The Pension Committee appointed by the Chairman of the New York Telegraphers on March 21st last to prepare a prospectus for a pension system for the care of telegraphers advanced in years for whom no systematic and suitable provision has been made, has pursued the subject as far as it has been possible to do up to the present time, and has adopted a report of progress with recommendations, which report it desires to place before the telegraphers by whom the Committee was appointed and either to be discharged or instructed further in the premises.

"It is the view of the Pension Committee that it would be wise to secure the publication of this report through Telegraph Age if possible in advance of the meeting that may be called to consider it, so that not only the telegraphers in New York but those interested in other cities may have an opportunity to study the present situation as outlined in the report, and be prepared at a meeting to be held in New York on November 18th next, the day before the annual meeting of the Telegraphers' Mutual Benefit Association, to in-

telligently act upon the subject."

New York, August 18th, 1902.

To Members of Pension Committee,

Gentlemen: On my appointment by you as a sub-committee of one to interview the presidents of the Western Union Telegraph Company, The Postal Telegraph-Cable Company, Commercial Cable Company, Texas Postal Telegraph and Cable Company and the Canadian companies, I wrote each of such companies a letter dated May 9th, 1902, as per attached copy, which has already been made known to you. Replies have been received from all the parties addressed and are hereto attached. There seems to be a friendly disposition evinced in the replies received, but no definite offer of active co-operation with your committee has been made by any of the companies for the purpose of devising a feasible pension plan for the care of incapacitated and aged worthy telegraphers in the United States and Canada, such plan to contain the features which the telegraph fraternity has been assured would insure Mr. Andrew Carnegie giving "a considerable sum" as per his letter dated Feb. 13th, 1901 to Mr. W. C. Connolly, Jr., of Pittsburgh, Pa.

It was thought by some that the pension committee of which you are members should confine its attention simply to a plan for the care of present incapacitated and aged telegraphers, but the New York telegraphers at their meeting in the Press Club, at the time they arranged for this committee, gave instructions that the committee was to take up the subject where the Old Timers had dropped it in Montreal, and see if there could be devised, for the general benefit of the frater-

nity, any pension or relief plan similar to those in operation among the employes of the Pennsylvania, the Baltimore & Ohio and other large rail-

road systems.

There seem to be some good reasons for the withholding up to the present time of active assistance by the principal telegraph companies. Col. A. B. Chandler has been unable to give the subject attention in behalf of the Postal Telegraph-Cable Company on account of absence from his office through physical indisposition almost continually since receiving my letter, but he personally called on me about the first instant and desired to be advised at any time if he could be of any assistance. Mr. George G. Ward, vicepresident and general manager of the Commercial Cable Company, has been absent in Europeonimportant business ever since the receipt of my letter. Col. Robert C. Clowry had been but recently appointed president and general manager of the Western Union Telegraph Company at the time he was handed my letter above referred to and it is but reasonable to infer that the subject of a pension system for telegraphers would await its turn among matters that seemed to him more pressing.

Owing to the difficulty of securing an attendance of all the members of our committee at its several meetings by reason of the pressure of other duties and of what has seemed to me to be the hopelessness of the development by them of any practicable plan on account of their pre-occupation and the very extensive and complicated nature of the pension subject submitted to them, I took the liberty of asking the assistance of the Hon. Carroll D. Wright, Commissioner of Labor, as per copy of my letter attached, dated July 30th, last, and I beg to also attach his very courteous

reply of August 14th, inst.

My duties to my company have prevented me from making more than a superficial study of the application of a pension system to telegraphers, and such study has impressed me with the idea that the formulation of a plan that will be alike acceptable to commercial telegraphers, to Mr. Carnegie and the telegraph managers, will require profound study and considerable labor of some one competent to deal with it in all its phases.

The railroad employees have been grouped into eighteen general classes by the Inter-State Commerce Commission for statistical purposes, viz:

General officers, other officers, general office clerks, station agents, other station men, enginemen, firemen, conductors, other trainmen, machinists, carpenters, other shopmen, section foremen other trackmen, switchmen, flagmen and watchmen, telegraph operators and dispatchers, employees, account floating equipment and all other employees.

No classification of telegraph employees has ever been made for regulating their participation in any mutual relief or beneficial system. It seems to me that in the main the nature of their employment is widely different from that of railroad employees. In the early days of the telegraph there

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were as many managers as operators; chief operators were unknown, but as wires and business increased the necessity for operators to exclusively send and receive telegrams, has grown to such proportions that in the large commercial centres hundreds are now employed under one manager assisted by a small number of chief operators for testing wires and for supervisory purposes, so that a rough classification may be made thus:

General officers, electricians, general superintendents, district superintendents, supply superintendents, managers, cashiers, chief and supervisory operators, book-keepers, clerks of departments and officers, operators, assorting and distributing clerks, superintendents of construction, foremen of repairs and repair patrolmen, dynamo attendants, managers of messengers and messengers.

Very succinct though comprehensive articles upon the plan and operation of the principal railway relief and pension system in this country have been written by Prof. Emory R. Johnson, Ph. D., and printed in No. 8 Bulletin of the Department of Labor, January, 1897, and in No. 17 Bulletin of July, 1898; also a valuable article by Samuel M. Lindsay, Ph. D., in the Labor Bulletin No. 37, 1901, upon railroad employes in the United States, giving their classifications; facts as to qualification; wages and hours of work; permanency of occupation; discipline and relations of employer and employe.

Prof. Johnson explains that "a railway relief association is a special part of the railway service established by the railway corporation for the purpose of enabling its employees to contribute definitely fixed sums from their monthly wages toward a fund administered by the department for the benefit of its members. The organization is managed conjointly by the corporation and the employees. Membership is sometimes voluntary and sometimes compulsory. The members receive aid in case of sickness or accident, and at their death their families or other beneficiaries are paid definite amounts, the benefits derived from membership being proportioned to payments.

"Railway relief departments are to be distinguished from the other and less comprehensive arrangements by means of which several railway companies unite with their employees in furnishing temporary relief. Hospitals are frequently maintained by the companies for their employees, the companies in some instances paying all the hospital expenses, and in other cases requiring the men employed to contribute a part of the cost of maintenance. Many railway companies provide their force with free surgical attendance outside of hospitals, and others contribute something to associations formed by the employees to provide themselves with relief. It is customary for railway managers, when possible, to provide partially disabled men, or those grown old in the service, with the kind of labor they are capable of performing. The railway companies having relief departments provide more systematic and comprehensive relief, covering sickness, accident, old age and death.

"Relief departments are one of the three agencies by

"Relief departments are one of the three agencies by means of which railway employees can secure relief and insurance. The other agencies are (1) the accident and life insurance companies, and (2) the associations or brotherhoods, of which there are several of national scope, each open to a particular class of railroad workmen. Some railway companies recommend their employees to insure in an accident or life insurance company with which a special arrangement has been made.

At present, however, relief and insurance is most frequently obtained through membership in an employees' association or order.

"These orders are of two kinds, the less important class consisting of the employees of single railroads. More frequently the associations are of the type of the International Brotherhood of Locomotive Engineers, or the Order of Railway Conductors of America, eligibility to membership in which depends upon the class of work done and not upon connection with the service of a particular railroad company.

"These large and influential orders maintain relief features, in which all eligible members are required to participate. In 1895 the Grand International Brotherhood of Locomotive Engineers had 536 divisions, with a total membership of 32,000; the Order of Railway Conductors of America had 370 divisions, with a total membership of 19,827. In the same year the Brotherhood of Railroad Trainmen comprised 556 divisions, and had 24,000 members. The Brotherhood of Locomotive Firemen now includes 519 lodges, and 22,978 members.

"The kind of insurance and relief afforded by the or-

"The kind of insurance and relief afforded by the orders of railway employees is much the same as other labor organizations and secret societies provide their members. The railway relief departments under discussion in this paper are organized upon a different plan, and provide the members not only with payments on account of death, but also with assistance of definite amounts in case of sickness or accident. The present paper must confine itself to the history of railway relief departments, their plan of organization and results accomplished. A complete presentation of the subject of railway employees' relief and insurance is not attempted; that would necessitate a study of the plans for relief and insurance that have been adopted by the employees' orders, the scope of their work, the results they have accomplished, and finally a comparison of the orders and the railway departments as relief agencies.

"Thus far relief departments have been established in

"Thus far relief departments have been established in connection with six large railway systems, namely, Baltimore and Ohio, Pennsylvania Railroad, Pennsylvania Company (lines west of Pittsburg and Erie), Chicago, Burlington and Quincy, Philadelphia and Reading, and the Plant System.

Each of the six relief departments is administered conjointly by the companies composing the railway system to which the department belongs. All the companies of the Baltimore & Ohio are associated in the relief organization of that system. The Pennsylvania Railroad's department comprises the Pennsylvania Railroad (lines east of Pittsburg and Erie), Northern Central, Philadelphia, Wilmington and Baltimore, and the West Lersey and Seephore

Jersey and Seashore.

"The motive that impelled the employees' to unite with the railway companies in the establishment of relief departments was the desire to secure aid in case of sickness or accident, and to obtain a life insurance that would insure their dependents against want. Railway employees are a comparatively well-paid class of laborers, but both their itenerant life and the intermittent character which the alternating periods of activity and inactivity in business give to much of their work militate against economical living and habits of saving. The employees have adequate reasons for favoring systematic relief and insurance agencies.

"The railway companies were moved partly by philanthropic and partly by financial motives. In the establishment of relief departments, as in the case of many other measures taken by corporations, philanthrophy and economy go hand in hand. The desire on the part of the managers and directors of many of the large railway systems to promote the material and ethical well-being of their employees, is attested not only by the existence of relief departments, but also by the railroad Young Men's Christian Associations, reading rooms, libraries, and other well-known institutions supported in large part by the employing corporations. Without doubt, however, the conviction that money expended in helping maintain relief departments for the promotion of the material welfare of the operatives would prove a good financial investment was the most potent of the forces that influenced the action of the railway companies. The directors of some railways, at least, became convinced that the best interests of the roads, even when these interests were viewed strictly from a business standpoint, required that the employed should be connected with the companies they serve by some other bond than that created by the payment of current wages, and the companies thus realized that their greater good required them to identify as fully as possible their own and their employees' interests. Indeed, in this way only is it

possible to create such an esprit du corps as makes strikes impossible, and prompt men to give their employers the highest possible grade of service. In 1889, Mr. E. P. Ripley, when general manager of the Chicago, Burlington and Quincy Railroad, stated that the object of the company in establishing a relief department was to enable its employees to make provision for themselves and families at the least possible cost to them in the event of sickness, accident, or death. The company has established this department not only because it has the interests of its employees at heart, but because it believes that the department will serve to retain and attract a good class of employees, lessen the amount of discontent caused by improvidence, diminish the amount of litigation in cases of accident, and increase the good will of the employees toward the company, and their confidence in the good will of the company toward them."

Prof. Johnson also says some of the railroads adopting relief systems in conjunction with their employees, have also established in connection therewith a pension feature for the purpose of creating a fund to be used in providing for superannuated employees or those permanently disabled. It is thought by some that the Baltimore & Ohio Railroad has adopted the most satisfactory system. It gives superannuation annuities to retiring employees who have reached the age of 65 years, have served the company ten consecutive years and have been members of the relief department for four years. This pension is onehalf the allowance granted to sick members. The members in the relief department are divided into five classes based on their wages. If the pensioner has been a member fifteen years he gets an additional five per cent., and ten per cent. when twenty years a member.

It is claimed that the relief department benefits not only the employees, but also the railroad company and the public, as the disposition on the part of the companies to promote such vital interests of their helpless employes, tends to a harmonious promotion of the mutual interests of labor, capital and society.

These relief departments are additional to and in competition with the large relief and insurance associations independently conducted by the various orders of railway employees. Railway employees also support one or two small homes for aged and disabled employees.

It is obvious that persons in the most numerous class of railroad employees, viz: those engaged in and around locomotives and running trains, are open to accidental injuries which no foresight of the companies can obviate. No similar dangers beset telegraphers, so that beside following the wise and enlightened policy of securing the advantages of a longer and more loyal service of their faithful and experienced employees, the railroad managers at the same time assist in providing prompt pecuniary aid in a systematic way to the unfortunate who are so frequently injured in the performance of their duty.

A few commercial telegraphers at present are supporting the Telegraphers' Mutual Benefit Association which provides the payment of \$1,000.00 or \$500.00 upon the death of a member. They also have in New York City and in a few other large telegraph centres, aid societies for the payment of weekly benefits to sick members. The

Commercial Cable Company supports a system by which the lives of its employees are kept insured at the company's expense in one of the large life insurance companies.

It seems to me that any system of pensions for persons employed by telegraph companies must particularly apply to those who are constantly employed at the key, as they greatly outnumber all other classes of employees and will continue

to increase in a greater ratio.

Those at the key in some respects are subjected to the most trying conditions of service which is quite different from almost all other branches of industrial occupations; yet a pension system, if adopted, should be elastic enough to provide equitably for all classes of commercial telegraph

employees.

In the Pennsylvania Railroad Company's plan of pensions all officers and employees who give entire time to the company and who attain the age of 70 years, or who being between the ages of 65 and 69 years inclusive, and having been employed 30 or more years in the service of the railroad company, and shall then be physically disqualified, shall be relieved and placed on the pension roll. No accident nor sick benefits shall be paid thereafter. No person over 35 years of age shall be given employment by the railroad company unless with the approval of the Board of Directors.

The Illinois Central Railroad supports a pension system which provides for all officers and employees 70 years of age, and who have been ten years in the service, except locomotive engineers and firemen, conductors, flagmen, brakemen, train baggagemen, yard masters, switchmen, bridge foremen, section foremen and supervisors. These may be retired at 65 years of age and pensioned if ten years in the service.

It is manifestly absurd to think of a pension system that is only applicable to active telegraphers when they arrive at the age of 65 or 70 years. The large proportion of actual active operators to those holding advanced desirable positions which afford better wages in large telegraph centres, confine the chances of promotion and betterment of condition in the service, to a very inconsiderable number, particularly as the extension of the service in the face of telephone competition and fast mail service, must be slow and the promotion of operators to positions of less physical strain and greater emolument must necessarily be infrequent.

It is my opinion that no pension system such as advised in Mr. Carnegie's letter, can be inaugurated unless by and with the leading and active co-operation and participation of the telegraph companies. The question must be understood aright before anything satisfactory can be accomplished. If the telegraphers choose to organize and voluntarily provide pensions for themselves that is one thing, if they prefer to join with their employers in a relief system, that is another thing, the latter to my mind is the only feasible plan.

Persons engaging with a telegraph company

to work wires are supposed to know in advance that the first few years of their service are the most profitable to the company, and that as time goes on they become less and less able to transmit or receive telegrams rapidly. The age at which operators become incapacitated, of course, depends upon their physical constitution and the kind of wires they are required to work.

Quite a large proportion of operators are ladies and it will not be denied (other things being equal) that they are not physically adapted to endure the strain of working busy wires for as many years as male operators are able to do. is fair to presume that if the foregoing statements accord with the facts that they are well known to all who have entered the telegraph service and that they knew what to expect when the time arrived that they became worn out with toil.

The great cost of telegraph wires to cover so many thousands of miles, and the enormous cost of their equipment and maintenance, together with the great wear and tear of the system, renders it a stern necessity, under present conditions, that the telegraph companies should secure the greatest possible transmission of traffic over each and every circuit during the busy hours of the day, in order that enough revenue may be earned not only to pay high wages to the employees, but also to keep the system in the very best working condition, meet all depreciation and return a fair dividend to those whose capital brought the telegraph system into existence and set and kept it in operation.

If it is true that young persons who have entered the telegraph service as operators, become incapacitated on an average in a comparatively few years and need replacing by young blood, for the good of the service, then indeed the labor question assumes not only for them, but for the companies as well, an extremely serious impor-

As a rule operators have not the time nor opportunity to acquire a more lucrative profession or trade nor to make profitable investments with what they may have been able to save, and the serious problem confronts them as to their future source of income to provide for their comfort should they pass the average age limit and become incapacitated.

The manner in which this will affect the companies will be in the higher rate of wages demanded in the telegraph service than in other industrial pursuits in which the conditions of labor are more favorable and afford a better prospect for providing something for the comfort of the empoyees in the inevitable and proverbial "rainy day."

There are at present employed in the telegraph service several persons who are fit subjects of sympathy and assistance. They have drifted along through the years, many of them being favored by the companies and kept at work on circuits which could have been made to yield more revenue in other wavs, and the time has arrived when such operators, incapacitated from age or otherwise, must step aside for others more active. It was probably such operators that the Old Timers had in mind when efforts were made to establish a home, but if any plan could be arranged by which the limited number of existing incapacitated telegraphers can be given permanent pecuniary relief, the plan would be greatly contracted below the one I believe this committee was appointed to consider and the one advised by Mr. Carnegie.

Under all the circumstances, in view of the character of the whole subject, I suggest that this committee report back to the telegraphers by whom it was appointed with the recommendation that if they believe that there is a prospect of the telegraph and cable companies giving any assistance in the formulation and establishment of a satisfactory pension or other relief system in connection with their employees, that a competent expert such as Prof. Emory R. Johnson, Ph. D., of the University of Pennsylvania, be employed to devise a practicable system that will meet the approval of the telegraph companies, Carnegie and the telegraphers.

> Very respectfully, (Signed) Francis W. Jones.

Chairman.

At a regular meeting of the Pension Committee on August 18th, 1902, in the office of Mr. E. F. Howell, 195 Broadway, New York, the above report was accepted and adopted as the Committee's report to be printed and presented at a meeting of telegraphers to be held at the Press Club in New York, on the evening of November 18th next.

The pension committee consists of Francis W. Jones, John Brant, E. F. Howell, W. C. Burton, P. J. Tierney, and W. A. Van Orden.

The letters previously referred to are as fol-

Hon. Carroll D. Wright, Commissioner of Labor,

Washington, D. C.

I take the liberty of enclosing a copy of a letter which has been addressed to the executive officers of the West-ern Union Telegraph Company, Postal Telegraph-Cable Company, Canadian Pacific Telegraph Company, the Great Northwestern Telegraph Company of Canada, and

Great Northwestern Telegraph Company of Canada, and the Postal Telegraph Company of Texas.

"I think the letter will briefly explain generally an object which the telegraph fraternity is desirous of securing if possible. The subject, however, is quite complicated, and far-reaching as to details and effects.

"I am the present chairman of the committee alluded."

to in the first paragraph, and have received very friendly expressions from the chief officers of the Postal-Telegraph-Cable Company, and also the Commercial Cable Company, but the formulation of some feusible plan seems to me to require an expert in this line who has had considerable experience with similar systems for other large corporations, and who could give it special attention, which it is quite impossible for the telegraphers' committee to do, and which I fear could not well be undertaken by the telegraph companies themselves, but if there could be devised some system which contained the elements of practicability and mutuality,

Would you be so extremely kind as to give me the benefit of your views upon the subject, and if you coincide with my views as to the necessity for an expert, to suggest the name of one whom you think would be competent.

"I notice that in your report, No. 8, of January, 1897, on page 42, that great credit has been given to Dr. W. T.

Barnard in respect to the Baltimore and Ohio system, and Mr. J. A. Anderson, of Trenton, N. J., as the author

and Mr. J. A. Anderson, of Trenton, N. J., as the author of the Pennsylvania Railroad Company's system.

"The telegraphers at present nave no national brotherhood embodying a relief, pension or insurance system, excepting the Telegraphers' Mutual Benefit Association, which is to a small extent encouraged by both of the great prevailing telegraph companies. There is, however, in New York a relief and aid association, and possibly there may be similar ones in Chicago and elsewhere. where.

"Any service you can consistently render to the telegraphers in this direction, I am sure will be heartly appreciated. Very respectfully yours,

"FRANCIS W. JONES, Chairman."

New York, July 39, 1902.

'In answer to your very interesting communication of July 30th, I have to say that after carefully examinof July 30th, I have to say that after carefully examining the project as stated by the committee in its communication of May 9th, to which you refer, I heartily approve the suggestion made. I am in accord with the recommendations of Mr. Carnegie. The home is not what we want, it seems to me, but a joint fund for the benefit of telegraph operators. Some scheme introducing the best features in the Pennsylvania Railroad and Baltimore and Ohio Railroad plans would accomplish the purpose. Prof. Emory R. Johnson, University of Pennsylvania, Philadelphia, is the best informed man in the country, so far as I know, on these subjects, and I would cordially recommend to you that he be not only consulted, but employed as an expert in shaping the consulted, but employed as an expert in shaping the plans for your association. Homes do not meet the needs of the men. I think this has been proved by such establishments as the Drexel Home in Colorado for printers, although that has met with perhaps reasonable success. Mr. Carnegle's position is so strong that it ought to be considered, and I am very glad to see that in the vote of your committee it was decided not to consider the establishment of a home.

"I send you a few bulletins in which you will find articles and reports, some of them from Prof. Johnson,

on relief associations.

"If I can be of any further service to you I trust you will feel at liberty to command me.'

The letter addressed by Mr. Jones to the telegraph companies was as follows: Dear Sir:

A committee representing a large number of telegraphers has requested me to solicit your advice and co-operation in formulating and carrying into effect a plan for the care of incapacitated and aged worthy telegraphers in the United States and Canada.

This subject has been for some time under the consideration of the telegraph fraternity in the United States, and I thought it would be agreeable to you and conform to your convenience if I were, as succinctly as possible to give a resume of the situation as it presents itself to the committee aforesaid.

The necessity for the care of incapacitated telegraphers has long been felt, and various unsuccessful efforts have been made to devise some permanent plan for their relief.

The first serious move in the matter was made in Chicago a few years ago by the Old Time Associated Press Operators presided over by Mr. Addison C. Thomas of The Associated Press, but

no definite step was taken.

The question came up at the Old Time Telegraphers' meeting held in St. Paul in September, 1900; Mr. Thomas formally turning the matter over to the Old Timers' Association which referred it to its executive committee for action.

The prevailing sentiment at that time seemed to be in favor of a Home, and some generous offers from Colorado were made to give land and money for the purpose. Shortly after the St. Paul meeting Mr. W. C. Connolly, Jr., of Pittsburg, in behalf of the telegraphers wrote to his friend, Mr. Andrew Carnegie, asking his assistance in the establishment of a home for telegraphers, to which letter Mr. Carnegie made the following reply—

5 West 51st street, New York, Feb. 13th, 1901.

Mr. W. C. Connolly, Jr., Pittsburg, Pa.

Mr. W. C. Connolly, Jr., Pittsburg, Pa.

Dear Mr. Connolly:—
Yours of January 14th is before me this morning. I have known several "Homes for the Aged" of specified classes that amounted to little or nothing, from Bulwer's "Home for Decayed Authors," down. Old men will not leave home and its associations to live in a distant place. Would it not be better to have a pension fund for telegraphers who are aged and invalid? I do not see why the Pennsylvania Railroad system should not be introduced; the railroad pays half and the employees about half, and this takes away from it the element of charity. Men enjoying the pensions are really using what they themselves have contributed. If the Old Time Telegraphers' Association would get up a scheme like

what they themselves have contributed. If the Old Time Telegraphers' Association would get up a scheme like that, I should be glad to give a sum as a nucleus.

"I feel very warmly toward my old associates, and should be glad to give a considerable sum, provided the pension scheme could be made available. My opinion is that this would do far more good than your proposed home away out in Arkansas. Very truly yours,

ANDREW CARNEGIE.

P. S.—The telegraph companies would also contribute, I think, as the Baltimore and Ohio and Pennsylvania Railroads do. Please let me know how the idea strikes

Mr. Carnegie's reply, as I am informed, was forwarded to Mr. A. C. Thomas, who with Mr. S. A. Duncan, Col. W. B. Wilson, Mr. Frank Richardson and Mr. Walter C. Burton, had been appointed a sub-committee of the executive committee of the Old Timers' Association upon the telegraphers' home subject.

At the Montreal meeting of the Old Timers in 1501 upon the report of the executive committee the subject was discussed and the following reso-

lution was adopted unanimously:

"Moved that this association, thoroughly believing in the care of incapacitated telegraphers, does not believe a national or international home is practicable." It was generally understood that as an association is was out of its sphere to attempt to represent the telegraph craft at large in the matter, as the Old Timers were organized purely for social purposes.

After the above meeting the Editor of Tele-GRAPH AGE was immediately besieged from ail parts of the country by correspondents urging that the subject be not allowed to drop, but that some steps be taken by the telegraphers themselves to inaugurate a relief system for incapacitated telegraphers, as it was conceded by the Old Timers and all others who had given the subject consideration, that such a system was very greatly needed, but as to just what direction this relief system should take, whether for a home or for pensions or for some other method, there was a diversity of opinion.

The Editor of Telegraph Age submitted the matter by letter to Mr. Carnegie for his judgment as to the most feasible plan, and in reply Mr. Carnegie emphatically declared himself against the home idea, and in favor of some system based upon the pension or superannuation scheme, and he has declared that if a feasible scheme can be gotten up that he should be glad to give a considerable sum towards it.

Further details, with which it does not seem wise to burden this letter, will be found in the printed reports of the Old Timers' Association for 1900 and 1901, New York Sun, December 5th, 1901, New York World, January 15th, 1902 and Telegraph Age January 16th, 1902.

A few representative telegraphers of New York issued a limited invitation for a meeting at the New York Press Club on March 20th last to take up the subject where the Old Time Telegraphers had dropped it, and to see if a practicable plan could be devised.

The meeting, of course, was merely a nucleus of what promises to have national scope, as it intends to place itself in communication with telegraphers in all the chief centres of telegrah industry in the United States and Canada, and if possible, secure harmonious action.

At this meeting the chairman was directed to appoint a committee of five prominent telegraphers with power to add desirable persons to the number of its members, who were to thoroughly consider the subject of pensions or other methods of relief, and if possible, formulate a plan which, after consideration and adoption at a subsequent meeting of telegraphers, should be submitted for approval and co-operation to all the important telegraph centres of the country.

Tentatively this committee has decided that its labor should be governed and given direction by the following considerations:

That no plan should be considered that would interfere with the work being carried on by the Telegraphers' Mutual Benefit Association or the various insurance and aid societies.

That only a plan of relief for incapacitated and aged telegraphers referred to in the discussions of the Chicago Press Telegraphers, and the Old Time Telegraphers and in Mr. Andrew Carnegie's communication should be considered.

That such plan should merit the approval and support of telegraph employers, and that the scheme should embrace all persons employed in commercial telegraphy, including the press in the United States and Canada.

That the plan should not be characterized by any humiliating color of charity, and that it be supported by the contributions of all telegraphers who wish to participate in its benefits.

There is no disposition on the part of the committee to ask the proprietors of the commercial systems to render any assistance that will not be deemed by them to be mutually advantageous.

It has also been suggested tentatively, that there could be two funds established, one in the nature of a gratuity and another in the nature of an annuity. The former to be built up from such contributions as may be received through the generosity of Mr. Carnegie and others, or from proceeds of entertainments, etc., and only the interest thereof used in an equitable manner for the benefit of those eligible for assistance.

The latter to comprise the amounts paid in by members and telegraph companies for the benefit of the annuitants or pensioners under proper rules to be established, and that whatever amount is contributed to such fund by any company shall only be for the benefit of its own employees and not for those of any other company.

I am sure that the more thoughtful telegraphers realize that in many cases the Western Union and Postal Telegraph companies have been conspicuously generous towards old employees who have become pretty well worn out in their service; but it is thought by many that by a proper system of relief or pensions that the telegraph employers could, by contributing to such a system, not only relieve themselves of these sporadic cases which have taxed their magnanimity in the past and will probably continue to do so for some time to come, but would be enabled to rearrange their employment of labor upon a more systematic basis, insuring to themselves the advantages of the experienced service of their employees for a greater length of time and under more favorable conditions; the laborers becoming less restless and worried about their futures and making less effort to seek other fields of industry for the purpose of protecting themselves and their families against the ravages of time which their small salaries are not adequate to

There can be no doubt but that aside from the ultimate purpose of providing pensions or other practical assistance to an unfortunate but inevitable class of employees, that the considerate cooperation of employers in caring in a business manner for the physical interests of their employees would create an influence whose importance in relation to capital and labor is becoming more widely appreciated by wise men every year. It is an influence that tends towards co-operation and must surely promote between the two effectively, though silently, that harmony which is the basis of their common prosperity.

The committee is very desirous of securing vour advice and assistance in behalf of the telegraphers whom it represents, and would feel very grateful if you will either act vourself or designate some one in your company to act with the committee to enable it to dispose of the subject committed to it to the best advantage of all concerned.

It is thought by the committee that your position in a company that has attained large proportions and employs a large number of telegraphers, should entitle it to be represented by you in a matter of such importance to the telegraph employees, and the committee is confident of your good offices in furthering telegraphers' interests in any consistent and reasonable manner, and will be glad to hear from you at your earliest convenience and to receive any suggestions from you, or to answer any questions which you may desire to make.

Col. A. B. Chandler writes under date of May v: "Your excellent letter of 28th ult., received and appre-



ciated. I need only say now that I am in full sympathy with the purpose expressed, that of devising and putting into effect a plan for the relief of aged, disabled, or partly disabled telegaphers. I do not feel sure that I shall be able to render such aid in the matter as seems to be expected of me, but, on my return to New York, about the middle of May, I hope to confer with you, and perhaps others, concerning it, and if I can help so worthy a cause, even in small measure, I shall be very glad to do so."

Mr. George G. Ward, had this to say on May 8. "I have received your note relative to the pension scheme of the telegraphers of America. 1 am very sorry I have not the time to go into this question with you as I am sailing to-morrow for Europe. You will remember, however, that I gave you my views on this subject some time ago. I trust your committee will be able to devise some plan by which Mr. Carnegie's offer can be accepted and the fraternity taken care of in their old age."

Montreal, Canada, May 13th, 1902. Mr. C. R. Hosmer, writing from Montreal on

May 13, said:

"I beg to acknowledge receipt of yours of the 9th, with reference to carrying into effect some plan for the care of incapacitated and aged worthy telegraphers in the United States and Canada. I might say that the Canadian Pacific Railway at its last annual meeting obtained authority from its shareholders to establish a pension fund, and the officers of the company are now endeavoring to work out some plan to accomplish this end. I think therefore you would have to leave the Canadian Pacific employees out of your proposed scheme. Personally, I would very much like to know that some provision had been made for the incapacitated and aged members of our profession, but I must confess that I do not see just how is could be worked out excepting through a pension fund, which would have to be adopted by each company, who would provide for its own employees. With kind regards, and hope you may be able to evolve some successful method of dealing with this worthy object."

Mr. H. P. Dwight, president and general manager of the Great Northwestern Telegraph Company of Canada writes from Toronto, under date

of June 11:

"Yours of May 9th came duly to hand. The question referred to is evidently a complicated one, and I do not at present feel qualified to offer any advice or suggestions in the case. The necessity for some action in the matter, I presume, is more evident with your people than it is with us on this side of the border, although I would not like to say that there is no need for such a scheme with us. All I can say meantime, is, that if any plan can be reached in the interest of all concerned, we shall be very glad to take our part in the matter.

Col. R. C. Clowry, president and general manager of the Western Union Telegraph Company.

writes on August 25th, 1002:

"My time has been so taken up with matters pressing for immediate attention that I have been able to give only superficial consideration to the letter from the Pension Committee of the New York telegraphers which I received under date

of May 9th.

"I understand that some reply from me is needed to round out the correspondence on the subject which is shortly to be published, and I therefore write briefly to say that while I am personally in sympathy with any well-considered scheme for the betterment of the condition of telegraphers as a class, I see many practical difficulties in the way of carrying out any comprehensive pen-

sion plan.

"Before the committee gets very far into the subject it will, I fancy, reach the conclusion that no pension system can be successful which is not established and managed in conjunction with the telegraph companies; and the subject is a very large one for the companies to consider. While pension systems varying somewhat in detail but having a common basis of equal contributions from employer and employees have for years been in apparently successful operation on several large railroads, the conditions of service in the telegraph field are not the same as in railroad work, and the considerations which probably governed the railroad companies in inaugurating and pushing the pension scheme would not be equally potent with the proprietors of the telegraph properties. This is the first time, too, that it has been proposed to unite in such a scheme the employees of more than one company.

'I have no statistics on the subject, but I am under the impression that the number of telegraph operators who are engaged in the service at the age of 65 and 70 years (the age when most pension systems are operative), and who at the age are incapacitated for work and in need of financial assistance, cannot be very great, and it has been the policy of, I think, all the companies to take care of such employees in one way or an-

'I do not know to how great an extent this agitation of the subject may be based on a desire to profit from Mr. Carnegie's kind offer to make a contribution which would form a nucleus for a pension fund, but I am afraid that any plan of assessment based on an adequate contribution from the employe to the large sum which it would annually be necessary to raise to afford the relief contemplated, would be bitterly opposed by many of the employees on whom it would be compulsory."

Write your name in kindness, love and mercy on the hearts of those you come in contact with day by day, and you will never be forgotten.—Chalmers.

> Trust no future howe'er pleasant, Let the dead past bury its dead, Act, act in the living present, Heart within and God o'erhead. —Longfellow.

Sample copies of Telegraph Age will be sent free to all intending subscribers.



#### General Mention.

Mr. E. O. Shock, of the Postal Telegraph-Cable Company, Baltimore, Md., is absent on an extended vacation for the benefit of his health.

Charles Malone, M. D., for many years an operator for the Western Union in their Boston main office, has resigned to follow his profession in that city.

Mr. F. C. Hackett, chief operator of the Western Union Telegraph Company, Cleveland, O., in renewing his subscription, writes: "I can't get along without it."

The Buffalo Electrical Aid Association, John G. McNerny, president, and George W. McCoppen, secretary, has just issued its semi-annual circular, which shows that its condition financially is strong.

Mr. J. F. Malone, who represented The United Press at New Haven, Conn., up to the time that concern ceased to do business, is still a resident of the Elm City, where he is prospering in commercial pursuits.

The young King of Spain is reported to have satirically remarked the other day that, while a hundred years ago it took a day to carry news from one given point in Spain to another, now with the telegraph, it took but two days.

Mr. J. A. Cahoe, of the Postal Telegraph-Cable Company, Louisville, Ky., has resigned to accept a position with the Western Union Telegraph Company at the same point. Mr. Cahoe is the Louisville representative of Telegraph Age.

Mr. Thomas A. Edison recently wrote: "I believe that within thirty years nearly all railways will discard steam locomotives and adopt electric motors, and that the electric automobile will displace the horse almost entirely. In the present state of science, there are no known facts by which one could predict any commercial future for aerial navigation."

#### The Railroads.

Mr. W. A. Freese has been appointed superintendent of telegraph for the Chicago & Alton railroad lines, with headquarters in Bloomington, Ill.

The Southern Railway Company, the system embracing a majority of the railroad lines south of the Potomac and Ohio rivers, has renewed its leases with the Western Union Telegraph Company.

Ralph Peters, general superintendent of the Southern system, Pennsylvania lines, has been made chairman of a committee appointed by the American Railway Association to outline a new form of telegraphic code to be used on all the railroads of the association. The committee was appointed at a recent meeting of the association, and instructed to prepare a code that will be suitable for general adoption. It is the intention of the association to adopt, if possible, a cipher code for all lines through the country, and in this way not only simplify the work of the telegraphic depart-

ments on different lines, but net a material saving in the matter of telegraphic expenses.

The Erie Railroad has recently completed the installation of a storage battery plant at its station at Huntington, Ind. The plant consists of 240 cells 6 A-H Willard battery on the mains, giving both polarities at 120 volts, and eleven cells of the same capacity working eleven locals. The eleven local cells are not duplicated in the plant but are kept on the sounders constantly, taking their charge along with the mains during the eighthour charging period. The mains are charged in banks of thirty cells against a pressure varying from ninety-eight to one hundred and ten volts from the exciter of the Ft. Wayne and Southwestern Traction Company's power plant near the station. Eight wires are batteried, four from each polarity, and a marked improvement is found in their working as compared with the gravity.

# What the Leading Electrical Paper Has to Say About Pocket Diagrams.

The new volume, "Pocket Edition of Diagrams and Complete Information for Telegraph Engineers and Students," by Willis H. Jones, and published by TELEGRAPH AGE, which is having such an enormous sale, is thus referred to by the Electrical World and Engineer, the leading electrical journal of the world:

"Telegraphers are severely practical men and not theorists, and Mr. Jones, a practical telegrapher himself, has, in this book, undertaken to lay before his fellow-workers all that is modern in telegraphic apparatus and practice. He, moreover, uses the simplest English in his descriptive matter, which no one can very well fail to comprehend. Theory has been studiously avoided, except to a very limited extent, where it was found necessary as an aid to a better understanding of the principles involved in the construction and operation of the apparatus described.

"The 260 pages of subject-matter are well printed, and the 126 specially-drawn illustrations are very clear in treatment. The illustrations consist of diagrams showing the wire connections between the various instruments constituting a set; between apparatus and instruments, etc., and form a very important feature of the book. The work possesses an originality that cannot fail to be interesting to all telegraphers and telegraph engineers. It is divided into 41 chapters, and as these cover such a wide range of subjects their headings are given herewith:

"It is evident from the above list of contents that the work is thoroughly modern, and since it bears the stamp of authority (Mr. Jones being associated with the engineering staff of his company) it will probably become one of the standard works on practical American telegraphy. It is written primarily for operators for the purpose of instructing them about the apparatus with which they have to deal, and this educational feature cannot fail to redound to the benefit of the telegraph service, if the ambitious and energetic operator will recognize in it an opportunity to better his condition. The work is 'pocket size  $(4\frac{1}{2})$  inches wide by 7 inches high), and bound in stout flexible leather."



#### The Old Timers' Reunion at Salt Lake City.

The twenty-second annual reunion of the Old Time Telegraphers' and Historical Association and of the Society of the United States Military Telegraph Corps, will be held this year at Salt Lake City, Utah, the date being set for Wednesday, Thursday and Friday, September 10, 11 and 12. The headquarters of the visiting telegraphers in that city will be at the Kenyon Hotel, an excellent hostelry, conducted on the American plan, charges being at the rate of \$2.50 per day and upwards. Members who expect to attend the reunion and who desire to secure hotel accommodations in advance, are requested to promptly notify Mr. George C. Fenton, of Salt Lake City, chairman of the hotel committee, who will gladly undertake to arrange for rooms as may be re-



GEORGE H. CORSE, OF OGDEN, UTAH.

President of the Old Time Telegraphers' and Historical
Association.

quired. As will be observed from the following programme, a pleasant round of entertainment, covering the three days of assemblage, has been arranged for the enjoyment of all who attend.

On the first day, Wednesday, September 10, at ten o'clock in the morning, the joint meeting of the Old Time Telegraphers' and Historical Association and of the United States Military Telegraph Corps will occur at the Kenyon Hotel. This will give the members an opportunity for a fraternal meeting, to exchange greetings, and to renew the friendships formed in years past at similar gatherings. It may be assumed that the half-hour assigned for this purpose will be a thoroughly enjoyable one.

The business meeting of the Old Time Telegraphers' and Historical Association will follow at half-past ten, held in the same place, succeeded at half-past eleven by a similar meeting of the Uni-

ted States Military Telegraph Corps. These brief, formal function completed, the rest of the entire stay will be given over to the pleasures of the reunion. In the afternoon of the same day, at half-



BELVIDERE BROOKS, OF NEW YORK.

Vice-president of the Olu Time Telegraphers' and
Historical Association.

past two o'clock, a drive about the city will be taken. This will include a visit to Fort Douglass,



JOHN BRANT, OF NEW YORK.

Sec'y-Treas. of the Old Time Telegraphers' and Historical Association.

to Salt Palace, and to the grave of Brigham Young. For the remainder of the day, according

to the programme, the time will be given over to a "go-as-you-please," and the many attractions of the city of Salt Lake, which for so many years has been the Mecca of all good Mormons, will doubtless come in for pleasant inspection.



CHARLES B. HCRTON, OF DENVER, COL. Chairman of the Reception Committee.

Salt Lake City is now a large and bustling town, and will no doubt agreeably surprise many, espe-



J. B. TWIFORD, OF SALT LAKE CITY.

Member of the Executive and Reception Committee.

cially those from the distant East, not only in its extent, but in the amount of business done there,

the beauty of its streets and of much of its architecture. Several views of Salt Lake buildings are shown herewith, including the tabernacle; the temple, with the tabernacle in the background; the interior of the tabernacle and the large organ; a view on the main street, and the Pavilion and beach at Saltair, on the Great Salt Lake.

On Thursday, September 11, at ten o'clock, a trip is projected to Saltair, distant some twelve or



fourteen miles directly west from the city. This place is the Coney Island of Salt Lake, and here a day's outing will be had, the excursionists returning to the city at half-past six in the afternoon. In the evening a banquet will be given at the Kenyon Hotel. This will be a subscription affair, tickets for which have been placed at \$2.50 apiece. It is proposed to make this a most delightful social event.

On Friday, September 12, the last day of the reunion, an organ recital on the famous instrument at the great Mormon Tabernacle is announced for half-past ten o'clock in the morning.



At the same time an excellent opportunity will be afforded for an inspection of the temple grounds, which are extensive and beautiful. At a quarter of one a trip to Ogden, situated between thirty and forty miles to the north, has been planned, the trip being made over the Oregon Short Line. A drive through the interesting Ogden Canyon will immediately follow, returning in

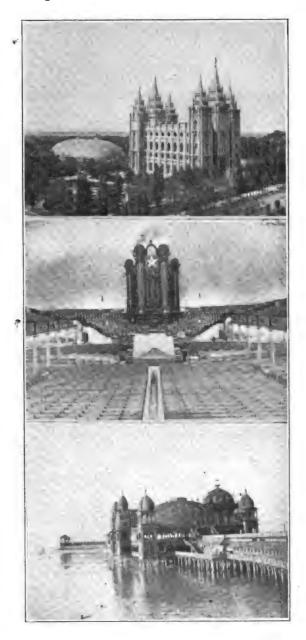


season to catch the train due at Salt Lake City at a quarter to six.

The several committees of the reunion are com-

posed of the following named gentlemen:

Transportation Committee.—T. M. Schumacher, chairman, traffic manager Oregon Short Line; C. A. Tripp, commercial agent Missouri Pacific Railroad; C. A. Walker, general agent Chicago and Northwestern Railroad; L. L.



Downing, commercial agent Chicago, Milwaukee and St. Paul Railroad, and Donald Rose, commercial agent Illinois Central Railroad, all of Salt Lake City.

Hotel Committee.—George C. Fenton, chairman; C. F. Warner, general agent Atchison, Topeka and Santa Fé Railroad; R. S. Campbell, manager Utah Light and Power Co., and I. H.

Lewis, paymaster Rio Grande Western Railroad, all of Salt Lake City.

Reception Committee.—C. B. Horton, chairman, assistant superintendent Western Union Telegraph Company, Denver, Col.; Arthur W. Copp, The Associated Press; J. B. Twiford, manager Western Union Telegraph Company, and Samuel F. Fenton, all of Salt Lake City.,

The officers of the Old Time Telegraphers' and Historical Association are as follows: George H. Corse, president, Ogden, Utah; Belvidere Brooks, vice-president, New York; John Brant, secretary-treasurer, New York. Executive Committee: L. B. McFarlane, Montreal, Can.; H. C. Hope, St. Paul, Minn.; H. J. Pettengill, Boston, Mass.; J. J. Dickey, Omaha, Neb.; E. T. Hulaniski, J. B. Twiford, W. J. Shealy and G. W. Jones, Ogden, Utah, and L. L. Downing, Salt Lake City, Utah

The officers of the United States Military Telegraph Corps are given below: Col. Wm. B. Wilson, president, Holmesburg, Philadelphia, Pa.; Wm. L. Ives, vice-president, New York, and J. E. Pettit, secretary and treasurer, Chicago, Ill. Executive Committee: E. Rosewater, chairman, Omaha, Neb.; A. H. Bliss, Chicago, Ill.; Col. A. B. Chandler, New York, N. Y.; W. R. Plum, Chicago, Ill.; George C. Maynard, Washington, D. C.; D. Wilmot Smith, Breckenridge, Minn.; R. B. Hoover, New York, N. Y.; L. A. Somers, Cleveland, Ohio, and J. D. Cruise, Kansas City, Mo.

The question of raising the age limit having been suggested in connection with membership in the Old Time Telegraphers' Association, the matter has become the subject of considerable agitation, and it appears that there has been an unusual amount of feeling aroused favoring a change. At the present time a person who has been in the telegraph service twenty years is eligible to membership. This makes it possible for a telegrapher entering the service as a messenger boy at ten years of age, to be eligible to membership in the association when he has attained his thirtieth year. The result is that the organization is rapidly becoming a "Young Time Telegraphers' Association." The question of raising the age limit to twenty-five or thirty years instead of twenty years, as at present, has been brought up at previous reunions. It may be well for the members to be prepared to take some action on the subject at this meeting. The officers of the association have expressed an opinion that the age limit ought to be raised, and the secretary, Mr. John Brant, in his report submitted at the Montreal Convention last vear, used this language: "In scanning the applications for membership during the year past, your secretary has been impressed with the youthfulness of many of the applicants, and, after mature consideration, has reached the conclusion that if this organization is to be known as 'The Old Time Telegraphers' Association' it will be necessary to make the eligibility limit twenty-five or thirty years' service, instead of twenty, as at the present time."

Since the last meeting of the Old Time Telegraphers' and Historical Association and of the United States Military Telegraph Corps, held at Montreal, a year ago, the following deaths among the forty-niners who are members have occurred: Ira R. Amsden, of Buffalo, N. Y., December 11, 1901; David McCargo, of Pittsburg, Pa., January 25, 1902; James L. Mingle, of New York, January 26, 1902, and Charles F. Wood, of Boston, June 14, 1902. The members of the United States Military Telegraph Corps, who have died during the same period, are: D. E. Martyn, September 20, 1901; W. H. Eckman, October 6, 1901; W. J. Bodell, October 7, 1901; R. S. Gough, December 18, 1901; J. H. Emerick, May 11, 1902.

#### Business Notices.

The Hammond typewriter has long held a high place in the typewriting world. The ease and speed with which the machine is worked, the beauty of its type, and the fact that the written page is always in sight, are excellencies that have combined to make this a well-liked instrument among telegraph operators and the public generally. Never before in the history of the company have its sales been so large as at the present time, its export trade increasing alike with its domestic output.

The name of D. A. Mahoney, of the operating department of the Western Union Telegraph Company, Philadelphia, Pa., has become familiar to our readers by reason of his persistent advertising in these columns. He is the special representative of the Philadelphia Typewriter Exchange, which does a large typewriter renting and selling business, as so many have occasion to know; and who also has met with marked success in the special handling of the Fay-Sholes typewriter. Correspondence is invited by Mr. Mahoney.

If you are planning a trip to the mountains this summer, be sure to send for "Mountain and Lake Resorts," a little book just issued by the passenger department of the Lackawanna Railroad. It will tell you about some of the most delightful places in the East. The book is hand-somely illustrated, and contains a series of amusing sketches, entitled "The Experiences of Pa." It will be sent on request, accompanied by five cents in postage stamps to T. W. Lee, General Passenger Agent, New York City.

Messrs. Foote, Pierson & Co., of 82-84 Fulton street. New York, the well-known manufacturers of telegraph and other electrical apparatus, advertise a few of their popular telegraph specialties on another page. These, as well as others not mentioned, all have an accepted place, and because of their superiority, both in design and construction, are highly popular among users. The Argus lightning arrestor, their main-line telegraph combination instruments, wireless telegraph coils, and the portable testing set known as the Delta, only need this reference to recall their high-grade excellence.

The Twentieth Century Telegraph Key is abundently attesting its usefulness. It has proved to be one of the best devices to overcome "lost grip" over offered to the operator. Mr. E. S. Russell, of the operating department of the Postal Telegraph-Cable Company, 253 Broadway, New York, agent for the sale of these keys, says that he has sold over 200 of them to operators in all parts of the United States, in every instance to those who were suffering from cases of lost grip. Without exception the report in each case has been that the sufferer has experience substantial relief by their use. No testimony of the utility of the key for the purposes designed could be stronger. Mr. Russell will be pleased to hear from his fellow operators who may be troubled with lost grip, and reference is made to his advertising announcement in this issue.

#### Rencent Telegraph Patents.

A patent, No. 706384, for a fire alarm telegraph thermostat system, has been awarded to R. G. Callum, Washington, D. C.

Patents Nos. 707007 and 707008, have been granted to Prof. M. I. Pupin, of Yonkers, for a system multiple telegraphy.

A patent No. 706251, has been granted to J. W. McDonald, of Larimore, N. D., for a mechanical telegraph transmitter. Morse characters are indicated on the rims of wheels, any one of which can be rotated to send its character to line by depressing a key which mechanically connects the disk with a rotating shaft.

#### Organization.

A local of the International Union of Commercial Telegraphers has been organized at Birmingham, Ala.

Four Western Union operators were recently dismissed at Buffalo, N. Y., for, it is said, alleged connection with the telegrapher's union; and two Western Union then at San Francisco for the same reason, were dropped from the pay-roll, making six in all at that point.

A call for a convention of commercial telegraphers, to be held in Chicago on September 20 has been sent out. The object is the forming of an international organization. The call was sent to forty-three cities throughout the United States and Canada where, it is said, local unions have been formed.

#### Late New York Visitors.

Mr. J. E. Peacock, manager Western Union Telegraph Company, Jacksonville, Fla.

Mr. Charles A. Dalton, superintendent of telegraph of the Southern Railway, Washington, D. C.

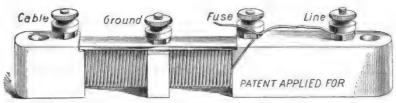
Mr. Clinton P. Russell, late general manager of the Postal Telegraph-Cable Company, of Dallas, Texas

# Foote, Pierson & Co.

# A FEW OF OUR POPULAR TELEGRAPH SPECIALTIES

The Argus Lightning Arrester

The most reliable and efficient protection to instruments and cables against lighting ever known.



It interrupts lightning of any dewithout gree grounding or disabling the line. It is always ready.

# Our Main Line Telegraph Combination Instrument

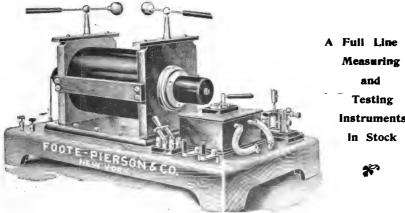
The adjustment of this instrument is done by raising or lowering the armature. It is equally as delicate as a box relay and can be adjusted to meet any line conditions. The instrument is modern in design and its use has made the box relay. and pocket relay almost obsolete as it is

cheaper and far better.



It makes the most convenient and e f f i cient instrument for this purpose known.

# Coils for Wireless Telegraphy



WRITE FOR OUR NEW CATALOGUE.

Measuring and Testing Instruments

in Stock , ,

### THE DELTA Portable Testing Sets

For all around work. Universally used by Railway Telegraph and Telegraph Engineers.



FOOTE, PIERSON & CO.,

82-84 FULTON STREET. NEW YORK CITY, U.S. A.

# THIS WILL INTEREST YOU

IF YOU ARE PROGRESSIVE

# THE HAMMOND TYPEWRITER

THE LEADING TYPEWRITER OF THE WORLD



HAS ALL THE GOOD FEATURES OF EVERY OTHER TYPEWRITER, AND, IN ADDITION, THE FOLLOWING EXCLUSIVE FEATURES, OF WHICH NO OTHER TYPEWRITER POSSESSES EVEN ONE:---100 DIFFERENT TYPE, IN 26 LANGUAGES, ALL INTERCHANGEABLE. PERFECT AND PERMANENT ALIGNMENT. UNIFORM IMPRESSIONS. ACCOMMODATES ANY WIDTH PAPER. UNLIMITED SPEED. GREATEST DURABILITY

PRODUCES THE MOST BEAUTIFUL WORK. WRITES LIKE PRINT—PRINTS LIKE WRITING.

TO THESE CONCEDED PERFECTIONS THE HAMMOND ADDS

A CROWNING GLORY

BEST MANIFOLDING WHETHER IN QUALITY OR QUANTITY

THE HAMMOND TYPEWRITER CO. New York, N. Y.

# **TELEGRAPHERS**

WILL FIND that the No. 2 "NEW MANIFOLDING" HAMMOND TYPE-

#### The Western Union Time Service.

Standard Time in these days of standard requirements is becoming not only an important, but an absolutely necessary factor in the conduct of general business. This fact is more and more apparent as commercial exactions grow more insistent. The method of determining, and the system of furnishing to all who require it, time



CHARLES H. MURPHY, OF NEW YORK. Southern Divisions.

that shall be correct and reliable under all circumstances, has developed into a business of very large proportions, with wide ramifications of service extending over the entire country. In one form or another correct time is publicly indicated in most of the large cities of the United States.

The idea of dispensing correct, or standard time, originated with the late James Hamblet, who established the time system for the Western Union Telegraph Company. He became the manager of the new bureau thus created, and continued as such until his death, which occurred in the Borough of Brooklyn, New York, in January, 1900. Mr. Hamblet was a man of keen perceptions, a genius in many ways, and attained a high reputation as an horologist. He was born in Boston, Mass., in June, 1824, and early in life became one of the most accomplished mechanicians of his day. For years as the trusted employee of William Bond and Son, he was engaged in the Eastern metropolis in the construction of marine chronometers, regulators for noting siderial time, and many other instrumental accessories of the observatory, requiring in their manufacture the highest skill of the trained craftsman. His name is found upon the observatory apparatus at Harvard and Columbia Universities, and at many points elsewhere, where the great telescopes of the fifty years past have been placed. Subsequently Mr. Hamblet gave his attention for a

number of years to the manufacture of electrical apparatus, and later, from 1870 to 1876, just prior to his connection with the Western Union Telegraph Company, he had charge of E. Howard and Company's extensive clock works at Boston, where his skill was successfully applied to the building of astronomical regulators. This long preliminary work eminently fitted him for the future development of the time service to which he was now committed, and whose commercial control was logically undertaken by the telegraph

The usefulness of the time service was a practical proposition, and from the first grew in public favor, and when its author relinquished his work in New York at the close of a long and active life, it had expanded into an important department of the Western Union Telegraph Company, extending to all large and many smaller cities. At the outset Mr. Hamblet constructed and placed a clock of his own design for standard time purposes in the Western Union Building, New York. This was in use until 1885, when the company made an arrangement with the Self-Winding Clock Company of New York, and commenced putting their clocks into service. These clocks, which are now so familiar everywhere, are wound every hour by a small electrical motor attached to the clock movement, the electric current for driving the same being obtained from two small cells of battery placed in the clock case, the hands of the clock being connected by the time signals. By reason of their regular, uniform winding, they Manager Western Union Time Service, Eastern and are the most accurate of time-keepers, and by the system which hourly corrects them, and which,



F. W. Brainerd, of Chicago. Manager Western Union Time Service, Western Division.

each day, at noon, corrects the master clocks, as well, which controls them, an absolutely uniform time service has been provided.

The time service is controlled from the Naval Observatory at Washington by the electrical transmission of time beats. Five minutes before twelve o'clock, Eastern time, each day, there is an almost absolute cessation of business on the wires, and an almost unbroken chain of circuits for time service is made up from Washington, reaching to the uttermost boundaries of the United States. The signals pass directly into the clocks, with which the wires are connected, and so give the time to all subscribers, whoever they may be, bankers, brokers, jewelers, public buildings, newspaper offices, and also to innumerable business houses and private residences throughout the country.

At the same moment the time balls, so familiar an object not only in New York, but in the majority of the larger cities, also indicate the time by their fall at noon. The original purpose of the ball at New York, the one first established, and which is placed on the roof of the Western Union Building, was to provide mariners with a ready means of accurately regulating their chronometers. Balls were afterwards erected at other seaports for similar purposes. The convenience of these time balls to the public is so generally recognized and depended upon that they have come to be regarded almost as a necessity, and their removal for any cause would doubtless be resented by the people almost as much as the withdrawal of any other great public utility, yet they are furnished free of all charge.

The death of Mr. Hamblet, and the growing importance of the time-service department to the Western Union Telegraph Company, determined that company to make some radical changes in its management in order to enable it to more fully cover the great field, and the enormous possibilities of usefulness confronting it. To this end, Mr. Charles H. Murphy, formerly clock inspector of the company at Denver Col., and afterwards district manager at Omaha, Neb., where he accomplished most excellent results, and who is regarded as perhaps the best equipped person in the service for the place, was called lately to New York and placed in charge of the time bureau. Already, in obedience to his general instructions, he is practically creating a new department, and has thoroughly reorganized his staff. The entire working and office equipment is being concentrated and placed in larger quarters on the street floor on the Dey street side of the building. Here will be located the recording master clock, and the seconds beat time transmitter through which the time signals are conveyed.

When all contemplated changes are completed, the important time service, not alone in New York, which is the chief office and directing head, but elsewhere throughout the country, will, it is expected, be guided by a more perfect harmony of purpose, and consequently of even higher efficiency then heretofore. Such intelligent efforts as are now being made to furnish standard time to the country at large in a more ample and comprehensive way than ever before attempted, will no doubt meet with the hearty appreciation and financial support it deserves.

As it is impossible to reach every part of the

country from one central point, the time service for convenience is divided into divisions, of which there are four, corresponding to those of the Western Union Telegraph Company. These in turn are subdivided into districts, over each of which there is an inspector, who is stationed at the headquarters of the district superintendent of telegraph. The business of the inspector is to carefully maintain the service in his district and see that it is kept in proper condition. Each district is furnished with a sub-master clock, each being fitted with a device for closing the circuit in order to synchronize all other clocks in the district each hour, except at twelve o'clock, at which time it omits sending its own signals, and with all the subordinate clocks in line, is itself synchronized. Reports are made by the inspector to the local telegraph superintendent, who in turn reports to the division superintendent, final transmissions of the same being made to New

Chicago ranks next to New York as being the most important station in the country. The local manager at that place is Mr. F. W. Brainerd, who has been in charge since the time service was originated. Mr. Brainerd has been instrumental in creating the time service in the Western Division, and to him all credit is due in bringing it up to its present high state of effectiveness. His position in the Western Division is closely analogous to that held by Mr. Murphy in the Eastern and Southern divisions.

Telegraph Age will furnish operators with just the kind of practical information they need.

#### LETTERS FROM OUR AGENTS.

[Advertising will be accepted to appear in this department at the rate of five cents a word, announcements to be enclosed with a border and printed under the name of the place of the advertiser. The special local value attached to advertising of this character will be apparent. Our agents are authorized to solicit advertisements for these columns, and further information on this subject may be obtained on application.]

#### PHILADELPHIA, PA.

My Motto—Honorable Dealing. D. A. Mahoney, Special Representative Philadelphia Typewriter Exchange, main office Western Union Telegraph Company, Philadelphia, Pa. DON'T think of applying at this office for a position unless you can use the "Mill," and DON'T think of arranging to buy or rent a new or remodeled typewriter until you have consulted me. All makes rented \$3 per month. Write or telegraph for inviting terms.

#### WESTERN UNION.

Mr. W. Morrison, of this office, is spending a vacation of two weeks at his home in Delaware. W. F. Sherer was suddenly summoned to Wash-



# IF

THERE IS ANY PLACE ON EARTH WHERE A GOOD TELEPHONE IS NEEDED IT'S IN RAILROAD WORK

Moral: buy

# **KELLOGG**

THEY HAVE STOOD THE TEST OF THE LARGEST EXCHANGES IN THE U. S.

A word about Kellogg Transmitters. A record that demonstrates our right to this statement:

## ABSOLUTELY UNIFORM

In the past year over 72380 Kellogg Transmitters have been put on the market, and out of that number only one purchaser has expressed his dissatisfaction and asked for his money back.

If it's a KELLOGG that's all you need to know about a Transmitter

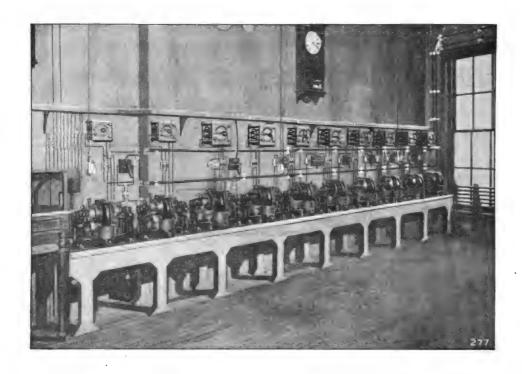


# CROCKER--WHEELER COMPANY

MANUFACTURERS AND ELECTRICAL ENGINEERS

# MOTO-DYNAMOS and DYNAMOTORS

For the Economical Supply of Electric Current for Telegraph Stations



WITH THESE MACHINES CITY CURRENT IS TRANSFORMED TO PROPER PRESSURE AND MAINTAINED CONSTANT, THEIR USE GREATLY REDUCES OPERATING EXPENSES, ECONOMIZES FLOOR SPACE AND ADDS TO THE CONVENIENCE OF THE PLANT

SALES OFFICES IN ALL LARGE CITIES

Office and Works

AMPERE, N. J.

ington, D. C., owing to the serious illness of his wife.

Recent arrivals are: J. Anderson, Memphis, Tenn.; W. C. Wrenn and J. J. Beasley.

J. C. W. Tawes, of Crisfield, Md., is a visitor here.

Up to the present writing nothing has been heard of Western Union Manager Hagenbuch, of Allentown, Pa., and H. M. Shultz, an operator in this office, both men having disappeared several weeks ago, baffling all efforts to locate them.

#### BOSTON, MASS.

Typewriters for sale, to rent and repaired. Remington, Smith, Densmore and all makes sold or rented on easy monthly terms to telegraphers. Send for samples, catalogues and full information to E. M. Bennett, Manager, The Typewriter Exchange, 38 Bromfield Street, Boston, Mass.

#### CHICAGO, ILL., POSTAL.

Edward Zimmerman, our west board wire chief, has resigned to accept a position as secretary of a gold mining company.

A. E. Wilder, our New York division chief, is spending a well-earned vacation. Assistant Chief Bohrer is filling his place.

S. D. Barger is assistant night chief of city lines division, vice Edward Stanton, who has returned to a wire.

Several of the regular men were placed on the extra list on account of failure to report on the day after pay-day.

A. T. Hickey and F. H. Williams are subbing

at a broker office.

O. T. Anderson has resigned to accept a position with a brokerage firm at an increase in

salary.

Chicago Division, No. 104, meets every first and third Saturday at 8 P. M. at Garfield Hall, 55th street and Wentworth avenue. The next meeting will be held Saturday, September 6. All O. R. T. men are invited to attend. O. T. Anderson, secretary and treasurer.

A Prominent Chicago Telegrapher.

Dr. John C. Kinney, a prominent figure in this office, was born at Rock Island, Ill., April 28, 1866. He entered the telegraph service at Leavenworth, Kan., in 1885, to receive afternoon report. After a year's service at that point he returned to Rock Island to accept a position, taking report for the Western Union. Resigning after a short service he became assistant wire chief at the Rock Island Arsenal, Ill., a position he held for nearly five years. Desiring to again enter the telegraph field, he obtained the managership of the Postal Telegraph-Cable company's office at Rock Island, from which he was soon transferred to a similar position at Davenport, Ia. Resigning soon after, he went to the main office at Chicago, accepting a position as operator. Promotion rapidly followed, and he soon became assistant chief of the Metropolitan division, from which he was transferred to be assistant chief of the Western division, later becoming loop chief. After this he was made chief of the Western division, and a year and a half ago became chief of the Eastern division.



Dr. John C. Kinney. Of the Postal Telegraph-Cable Company, Chicago.

In the meantime Mr. Kinney studied dentistry, and graduated from the Northwestern University in the dental class of 1899. He now has an office in the Masonic Temple, Chicago, where he is building up an excellent practice, largely, as it may be imagined, from among the telegraph fraternity.

BALTIMORE, MD., WESTERN UNION.

This office was honored recently by a visit from the following officials: President Clowry, Electrical Engineer Barclay, General Superintendent Brooks, and Superintendent Altherger.

On August 16 Wire Chief Louis D. Wilbourn was appointed chief operator of this company in Baltimore. Mr. Wilbourn entered the service of the Western Union as a messenger boy in 1870. Two years later he was an operator. In 1873 he entered the service of the Philadelphia, Wilmington and Baltimore Railroad Company, remaining with that company until 1879, when he reentered the service of the Western Union, and has been in this office working hard ever since. Most of the time from 1879 to 1885 he was assigned to the New York quadruplex. In 1885 he was appointed traffic chief, and in 1888 wire chief, which position he has held continuously until his recent advancement. Mr. Wilbourn is a hard student, and one who has kept abreast of the times in all things electrical. He is very popular with the employees.

Mr. Daniel Lester has resigned to go with a telephone company, and Mr. Reuben Burman has resigned to enter other business.

Mr. W. V. Ardisson has returned to duty after several months' illness.

Recent visitors: Mr. L. C. Hall, chief operator at Norfolk, Va.; Mr. E. A. Maaske, all-night chief, Jacksonville, Fla., and Mr. A. Bowersock, Jr., manager of the Postal, Newport News, Va. ...essrs. Bowersock and Maaske are "Baltimore boys."

#### NEW YORK CITY.

"My Old Virginia Home Upon the Farm," one of the sweetest songs published; "God's Will Not Ours be Done," (McKinley's last words) strong descriptive song with martial music; "Left on the Battlefield;" "Down Where the Cotton Blossoms Grow;" "I'll be With You When the Roses Bloom Again;" "Any Old Place I Can Hang My Hat is Home Sweet Home to Me;" "Heirloom Waltzes;" Zenda Waltzes;" "Utopian Waltzes;" "Metropolitan March and Two Step;" 18 cents each. If you want any other sheet music write to me about it. I can save you money. PIANOS SOLD ONE DOLLAR PER WEEK. Address, B. L. Brannan, 195 Broadway, New York.

#### WESTERN UNION-

New oak desks have been placed around the side of the walls where space could be found to accommodate additional wires. These desks are arranged to hold typewriters, the machines being stored underneath the tables.

Mr. A. E. Sink, manager of the operating department, is absent enjoying his annual vacation.

Mr. W. L. Apgar, has been promoted to the loop switch, vice R. Ferguson promoted to be an assistant traffic chief.

Mr. H. W. Satier, one of the well known operators of this office, who has been absent some months past on account of poor health, visited friends here a few days ago, and his appearance indicated that he is on the mend.

Mr. F. J. Sheridan has been appointed in charge of the number sheets and records in the Eastern division. Mr. Sheridan, besides being a first class operator, is also an excellent wheat-

stone man and tape puncher.

Mr. E. C. Cockey, superintendent of supplies of this company has at last been provided with a private office. This has been partitioned off from the large apartment on the fourth floor over which he has so long and faithfully presided. He has now one of the cheeriest of private rooms in the big building. There never was a doubt of the need of such a room, and its final acquirement will add greatly to the more convenient dispatch of business as well as to the personal gratification of the superintendent. The fresh tint of the walls which are adorned with many quaint, timely and pungent business mottoes, together with a fine and handsomely framed picture of Prof. Morse; the newly carpeted floor and other accessories of

a well appointed business office, all bespeak a degree of comfort and refinement altogether to the taste of the occupant. It was not strange then, when all was finished and pronounced correct, that Mr. Cockey should have had his "opening day;" and it is pleasant to reflect on the number who called to pay their respects on that occasion and who received as a souvenir of their visit a tragrant Havana cigar and a small bottle of red ink. But better still was the genial welcome that awaited all.

Mr. H. D. Rogers, the old timer, now a well-known manufacturer of manifold paper, has attained his sixty-eighth year, and he attributes his long life to having had hay fever for forty years.

R. L. Atkinson has been put in charge of the Jigger Switch, having as assistants C. W. Hauson, "Ham" Fitchett and L. E. C. Moore. Mr. Atkinson is the inventer of the "Atkinson Repeater."

Charles S. Pike is at Seagirt N. J., reporting the New Jersey troops sharpshooting contest.

George W. Patterson has resigned on account of poor health and will go to Salt Lake City, Utah, with his family where he will endeavor to recuperate.

Mr. Charles Edgar Rafford, secretary to Superintendent W. J. Dealy, of the commercial news department, will be married on September 1 to Miss Mabel Forson Irving, daughter of Mr. Gardner Irving, manager of the commercial news department, at his home at Garrison-on-Hudson.

Fred Catlin has returned to the office as 'an operator, but it is believed his superior talents will soon make him a mark for something better.

Anthony Young, for many years a member of the operating force in this office, and for some time past connected with a downtown broker, died on August 19, aged 43 years.

Mr. Gerrit Smith, of the electrical engineer's

office, has returned from a vacation.

The districts presided over by Mr. E. M. Mulford, our superintendent, are being constantly enlarged by the addition of new offices in Pennsylvania, New Jersey and in some of the New England States.

POSTAL.

Manager C. Shirley and family have returned from a two weeks' vacation spent at Lake George, N. Y.

Assistant Manager F. F. Norton and family are spending a vacation in Massachusetts.

Chief W. E. Todd has returned from a two weeks' trip to the West and South.

E. A. Coney, night chief West and South, and Fred. Zeiss, Eastern night chief, as well as Chief J. J. Fredericks, Assistant Chief John Mearns and E. J. Liston, are also back from vacation outings.

R. A. McKune and John G. Pierce of the Phil-

adelphia wires are also absent on vacation.

Mr. John Doren, superintendent of the department of complaints and claims, has returned from a well-carned vacation. Mr. M. J. Doren, of the same department, has also returned to his office after a vacation.



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NEW YORK CITY



CHICAGO, ILL., WESTERN UNION.

Mr. Edward Cranley, assistant on loops, and Miss Nellie Holland, of the Michigan division, were married on July 21.

Miss Maude Swartout, late of Maumee, Ohio,

is now enrolled here.

A. B. Cowan, night assistant chief operator, has been away on a vacation. His place was filled during his absence by Henry Price.

Joseph Cummins and Charles White are now

off on their vacations.

A. E. Bates has the sympathy of all in the death of his mother.

Fred. Latourneau is the happy father of a son.

H. H. Arthur, formerly of Chicago, has returned from Pittsburg to accept the position as chief of telegraph of the Santa Fé Road, whose offices are in the Great Northern Building.

E. J. Dolen has just returned after a short sojourn as manager of the Postal Telegraph-Cable

Co. at Tiffin, Ohio.

R. W. Chapman, formerly chief bookkeeper, and now filling a similar position in New York, was recently married to Miss Emma Keppe, of Chicago.

Mr. and Mrs. Joseph Stickle are traveling in

England for a few weeks.

We are happy to learn of the improvement in the condition of Miss Ida Palmer, and hope to see her with us soon again.

Arthur Galey is quite sick with typhoid fever.

W. H. Dolbear, manager at Des Moines, Iowa, and Charles W. Thayer, of Washington, D. C., an employee in Chicago in the seventies, who is on his way to California, were recent visitors.

CLEVELAND, O., WESTERN UNION.

C. W. Douglass, chief clerk in the superintendent's office, is enjoying a two-months' vacation in Europe. Mr. Douglass is one of the old-time telegraph men, having been employed in this visitive for the part forth warm.

cinity for the past forty years.

We regret to learn of the resignation of J. H. Bleasdell, chief of the transfer department in this district. Mr. Bleasdell has accepted a more lucrative position outside of the telegraph business. He has been thirty-two years in the service, and has had charge of the money order business for the past twelve years.

Chief Operator Hackett, accompanied by Messrs. Schauf and Dagen, are at Cedar Point, assisting at handling the business of the Legisla-

tive Committee.

Traffic Chief E. C. Stockwell has the best wishes of the fraternity for a pleasant time during his two-weeks' vacation at Detroit and Buffalo.

MONTREAL, QUE., GT. NO. WESTERN.

The recent yacht races made things very brisk here, several operators going to Dorval and Nuns-Point, made us short-handed. Frank Cochrane was in charge at Dorval, and Messrs. Dungan and Baker at Nuns-Point.

Miss Clara Wheeler is substituting for Miss

Beck during her vacation.

Manager W. B. Powell made a visit to his summer cottage at Old Orchard Beach, Maine.

Hugh H. Lyle has returned to work here again,

after being stationed at North Bay, Ont.

Mrs. Louise Morrisey, a former telegrapher here, now a resident of St. Paul, Minn., accompanied by her sister, Miss Holt, paid a short visit to our office.

Miss Gertrude Egli, of this office, replaced Miss Camp at the cordage branch during the vacation

of the latter.

Miss Beaudoin, of this office, is recuperating

at L'epiphanie.

Superintendent E. Pope, of Quebec; Superintendent W. J. Camp, of the Canadian Pacific Railroad, Montreal, and Thomas Dewit were recent visitors.

Mr. A. E. Sink, manager of the operating department, Western Union, New York; Mr. Poustie, late superintendent of construction for the Montreal Telephone Company, and G. D. Perry, secretary and auditor of this company, were recent visitors to our office.

CINCINNATI, O., POSTAL.

Mr. Fenton T. Bott, assistant to Manager C. E. Sawtelle, has been appointed acting manager at Dayton, O., temporarily relieving Mr. W. C. Weinman, who will return about September 1st. Mr. Frank W. Sprong is filling Mr. Bott's place. Mr. L. N. Burnstein, a branch manager, and wife have returned from a vacation of a month.

Mr. Frank P. Duckett, manager of a branch office, has resigned to enter other business. Mr. H. W. Howe has been appointed to succeed Mr.

Duckett.

Night Chief Samuel Sprong is taking a much needed rest and will be absent several weeks, his place being filled by James E. Nevill, who at one time was the permanent occupant of the position, and who resigned some time ago to go with a brokerage firm.

Edward F. Hasson, who has returned from a three-weeks' vacation visiting his parents at Townville, Pa., has been appointed a branch manager, vice Harry Beckmeyer, who has gone

with the Western Union here.

Superintendent E. W. Collins and Miss Maud Duckett, of Cleveland, and F. W. Carrol, electrical engineer of Chicago, were recent visitors.

On vacations: Miss Neiderhauser, who has gone to the Lakes; Miss Hannah Rosenblum, to Louisville, and Delivery Chief W. W. Rowland, to Little Miami fishing grounds.

Miss May Brady is handling the Typo Convention at the Burnett House in Miss Rosen-

blum's absence.

Mr. C. L. Bennett and assistants, of Chicago, are installing a new terminal room and rewiring the board.

Edward Wilkenson, branch relief, has accepted a position with the Western Union in this city.

Operators will find a fund of practical information in every issue of TELEGRAPH AGE.



#### Low Resistance Relays.

Editor Telegraph Age:

From time to time so many inquiries have been made about the proper resistance of relays for Morse wires, that perhaps the following information may be useful:

The Postal Telegraph-Cable Company, for its Morse wires, has relays of 150 ohms and 75 ohms, and the use of the latter relays in wires worked by a large number of offices is considered very desirable. The adoption of the standard relays of the two resistances above named has nothing to do with their being the best adapted to develop the greatest magnetic pull from a given amount of current.

It is well known that the resistance of a properly constructed electro magnet should be about equal to the resistance of the rest of the circuit to secure a maximum magnetic effect from a given current, but in our telegraph service such a relay is not necessary nor practicable.

It would cause a great deal of confusion to attempt to regulate the resistance of relays to all the various circuits in which they are worked for securing the best results in each case, consequently relays with the uniform resistance of 150 ohms each have been adopted for the entire system, and the currents for the operation of the circuits have to be regulated to properly operate such relays.

It is found, however, on circuits having a great many relays, such as is generally the case upon railroad wires, that the introduction of many electro magnets of 150 ohms resistance each so increases the time constant of the whole circuit as to render its operation sluggish, due to the inductance of the electro magnets as you no doubt have frequently observed.

To overcome this, it has been the practice of certain railroad electricians to place the coils of the relay in multiple, thus reducing the resistance in each relay from 150 ohms to 37 1-2 ohms, and, consequently, if the battery has been retained the same size, the strength of the current will be increased according to the total reduction of resistance of the circuit corresponding with the reduction of resistance in the relays.

At the time this was done, however, the ampere turns, or magnetizing effect of an equal current, was decreased to one-half in each relay, so that notwithstanding the strength of the current had been increased upon the wire, the reduction of ampere turns upon each relay did not permit of an increased magnetic effect, but on the contrary, in most cases, resulted in a large decrease.

The great benefit that was gained, however, and which was appreciated by the telegraph men, was the fact that they could work the relays much faster than previously; in other words, that their sluggish action had largely disappeared, and if the battery had been increased sufficiently to have restored the magnetic effect of the relays to what it was originally, before they were placed in multiple, it would be found that the signals would

travel over the circuit much more rapidly than before.

It has been my opinion that it is going to extremes to cut the resistance of the relay from 150 ohms down to 37 1-2 ohms by the multiple process; that it is too great a sacrifice of the effective working value of the relay, and that much better results can be obtained by reducing the relay only to 75 ohms, but at the same time to so reconstruct the relays with the very purest soft iron slotted cores, and giving them the very best proportions as to size and inertia of armature, tongue, etc., with fine clock-bearing shafts, that such relays at 75 ohms have really a much lower time constant than the large number of old-fashioned, poorly made, and badly designed multiple connected relays, which are in use upon many railroad circuits in this country.

With relays of high resistance, the result is that when a key is opened and closed at one end of the wire, it is quite an appreciable time before the relays have become fully demagnetized and mag-

netized, respectively.

It should be understood that the reduction of resistance in a relay from 150 ohms to 75 ohms, does not contemplate merely unwinding that much wire from a 150-ohm relay, but that the bobbins must be filled as full as possible with a wire of larger gauge than that used upon the 150-ohm relay, to measure 75 ohms from binding post to binding post. The best silk-covered, pure copper magnet wire, of course, being understood.

I think that the line leakage only affects the problem to the extent that leakage may reduce the electro-static capacity of the line wire, and also to cause a decrease in the strength of the signaling current, which decrease of current is going to more greatly interfere with the signals upon the circuit in which the current falls below the strength necessary to properly operate the relays. The line leakage undoubtedly will cripple first the relays having the fewest ampere turns of wire, but the circuit having low resistance relays should contain more current in proportion than the one with 150-ohm relays. Yours very truly,

Francis W. Jones.

New York, August 22.

T. M. B. ASSOCIATION.—Assessments Nos. 397 and 398 have been levied by the Telegraphers' Mutual Benefit Association, to meet the claims arising from the deaths of Edgar C. Stowe, Benton Harbor, Mich.; S. B. Taylor, Springfield, Ill.; Jas. St. J. Greenough, Sterling, Ill.; E. F. Walker, Somerville, Tenn.; Thomas Graney, New Haven, Conn.; Walter J. Wallace, Williamston, S. C.; Charles W. Woodbridge, Santa Barbara, Cal.; James Dunnigan, Brooklyn, N. Y.; Henry Dow, North East, Pa., and Walter Miller, Valatie, N. Y.

TELEGRAPH AGE is the only telegraphic paper published in Amerca. It is up to date, covering its field thoroughly, and no telegrapher, official or operator, can afford to be without it.





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Two months after I took up the I. C.S. training, I received an increase in salary. Aside from this, the satisfaction I am getting from my Course is worth a hundredfold what it cost me. I firmly believe that any one who can read will be benefited by I. C. S. training, as my early education was limited to common schools, and still I have mastered studies that I have never seen before.

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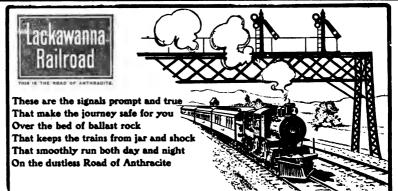
Telégraph Engineer Telephone Engineer Electrical Engineer
Designer of Electric Machinery Erector of Electric Apparatus Manager of Electric Railway Manager of Electric Light Plant Superintendent of Electric Plant Fire Underwriter's Inspector Interior Wireman Foreman of Dynamo Room Foreman of Electrical Repair Shop Dynamo Tender Electrical Lineman Motorman

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Name	
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Town	State

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Lockwood's Electricity, Magnetism and Electric Telegraphy. A practical guide for operators. 376 pages, 152 illustrations. Price, \$2,50, express-age prepaid Address J. B. Talta-vall, Telegraph Age, 253 Broadway, New York.

# LEPHONES.



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STANDARD TELEPHONE Long Distance Telephone AND ELECTRIC COMPANY MADISON, WIS.

The Mackay Will.

Mrs. John W. Mackay and her son, Clarence H. Mackay, recently filed the will of John W. Mackay at Virginia City, Nev. The will bears date of July 14, 1898, and was made in New York. Declaration is made in the first paragraph of the will that all the estates of the testator are the common property of his wife and himself. The will bequeathes all of his estates subject at the time of his death to Mr. Mackay's testamentary disposition to his son, Clarence Hungerford Mackay. The wife and son are named as executors without bond, and are given power to sell or dispose of the estate in any way they see fit. The value of the estate is estimated at between \$50,-000,000 and \$75,000,000. The witnesses to the will are Messrs. A. B. Chandler, E. C. Bradley and W. H. Baker.

The Tennessee District Telegraph Company has been organized at Memphis, with a capital of \$100,000. The incorporators are E. Howard, J. Compton, W. T. Gentry, James Merrihew and George H. Fearons.

The Postal Telegraph-Cable Company will, on September I, institute its own messenger service in Brooklyn, N. Y. Thomas F. Rochford, the Postal's manager, in a letter to the American District Telegraph Company, notified that company that the Postal company would deliver its telegrams by its own messengers after the above -date.

[Advertising will be accepted to appear in this column at the rate of three cents a word.]

Time and labor saved by using Reservoir Pensnon-blotting, latest patent. You can write 500 words with one dip in ink well. 25 cents a dozen. Write to-day, Russel Pen Co., 6608 Ellis Ave., Chicago, Ill.

#### Gold and Stock Life Insurance Association.

At the special meeting of the Gold and Stock Life Insurance Association, New York, June 23rd, adjourned to July 21st, the amendments to the by-laws, including graded rates, as follows, for new members,

Between 18 and 30, 50 cents per month, Between 30 and 35, 60 cents per month,

Between 35 and 40, 75 cents per month, Between 40 and 45, \$1 per month,

and as recommended at the last annual meeting,

were adopted to take effect January 1st, 1903.

# TRANSMITTING A PLEASURE. Rogers' Portable Key Base.

A Telegrapher's Necessity.

Handsomest, speediest and best key ever made; use on any wire; any position; instantly connected or detached; eliminates fatigue; lost grip relieved.



"It's all you claim."—I. S. Strachan, night chief operator New York Associated Press.

Price \$3.25; Full Nickel \$3.75. A. B. Rogers' mfr. 144 West 109 St. New York.



### TAKE TIME BY THE FORELOCK.

Dont' wait until sickness overtakes you before trying to get you life insured.

### Telegraphers' Mutual Benefit Association.

Insurance \$500, \$1,000 or \$1,500.

Assessment rates graded according to age and adjusted to income no matter how small. Further particulars from agents or

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J. S. TOWNSEND--The Telegraphers' Jeweler, 1554 Wabash Ave., Chicago, offers any article in his elegant stock at net wholesale prices. A rare opportunity. Any watches or jewelry advertised can be bought at a lower price from this well known firm. J. S. TOWNSEND, 1554 Wabash Ave., Chicago.

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# Typewriters for Telegraphers. The Philadelphia Typewriter Exchange, of Philadelphia, is the oldest, largest and best equipped house in Pennsylvania for supplying all makes of reliable typewriters. Machines rented or sold on easy payments. Specials terms to members of the O. R. T. and O. C. T.

D. A. MAHONEY, Special Representative,

Operating Dept. Main Office Western Union Telegraph Company, PHILADELPHIA, PA.



#### Shower of Rock.

Colonel T. P. Cook, general superintendent of the Western Union Telegraph Company, Chicago, Ill., and Colonel J. J. Dickey, superintendent of the same interests at Omaha, Neb., who are touring Colorado in the interest of their company, met with an experience near the summit of Pike's Peak lately that has no doubt given a few shades whiter tint to those gentlemen's locks.

Thirty years ago the Government established a signal office on the crest of the noted peak, and for several years kept a corps of observers stationed in the stone house that is held in place by large iron bolts firmly secured to the huge granite blocks composing the top of the peak. This house has withstood the wintry winds that frequently reach a velocity of one hundred miles, but the Government was not so fortunate with the telegraph line to the summit. Each spring a new line would have to be constructed, the material being transported up the lofty peak on bur-This proved too expensive for Uncle Sam, and ten years ago Pike's Peak station was abandoned, and nothing more was done towards bringing Pike's Peak into communication with the outside world until the cog road was built a few years later, then it was found quite necessary to have telegraphic communication with the summit in order to move trains safely.

A deal was made with the Western Union to construct and maintain the same, which was accomplished by using iron brackets instead of pine poles. These brackets were securely fastened into the granite walls, and for a time seemed to be the right thing in the right place, but they, too, began to go down and out after severe storms.

Hearing that the two well-known telegraphers were in the state, Major Clinton W. Sells, general manager of the Cog road, invited the gentlemen to ascend the peak with him and see if they could devise some means to combat with the elements. The party went to the summit on the afternoon train, then walked back a mile or two to watch what effect an electric storm, then in progress, had upon the wires. Colonel Dickey's keen eyes quickly detected the trouble, which was caused chiefly by the strong electric current that impregnated the air to such an extent that it melted both the lines and iron brackets. It was then decided a cable must be laid the last 3,000 feet, and held down to the ground by granite blocks, in order to insure no further trouble.

The distinguished party were congratulating themselves upon having solved the knotty problem, and were preparing to return to the summit to take their special car, when boulders from the size of a man's hand to those weighing hundreds of pounds began to roll down the precipice in such close proximity to them that their lives depended upon dodging them. Colonel Cook and Major Sells, being small of stature, managed to escape the fusilade by laying low and exposing but little of their anatomies, but with Colonel Dickey, he being a six-footer and well developed,

all depended upon his quick eye and ability to dodge. This the colonel acquired when a young man playing football. After the shower of rock, dirt and moss ceased, and the party could straighten up and look around, they beheld half a dozen beautiful specimens of the wild Rocky mountain sheep, who in their mad flight to escape the gaze of man were tearing loose the boulders above them, and all felt greatly relieved when they realized that it was not a repetition of the battle of Santiago, and will return home thinking there are lots worse places than Colorado, even if not so wild.—Old Farmer Lawton, in the Rocky Mountain News.

#### Old Menlo Park.

The New York Times has the following about the decay of Menlo Park, New Jersey, where Edison did so much of his famous early work: "Edison made Menlo Park famous all over the world. and in the old days there were many visitors to the little place. Even to-day many persons suppose the main laboratory of Edison is still at Menlo Park, and scarcely a day passes that the postmaster does not receive some letter addressed to Edison. Those were boom days for Menlo Park. Besides the Edison plant two other factories were built, and it looked as if the place had a bright future. Then Edison removed his plant, and the prosperity of the village came to a sudden stop. Little by little Menlo Park sank back to the condition of a country village. The railroad steadily decreased the number of trains stopping To-day an air of almost melancholy quiet broods over the place. Although the plant has fallen into decay Edison still owns it. His family have large interests in Menlo Park. A short distance east of the former laboratory stands the old Edison homestead, which is the property of Mr. Edison's daughter. In its time it was an imposing structure. Tenants were hard to find, the buildings fell into decay, and finally an Italian family were allowed to live in it rent free."

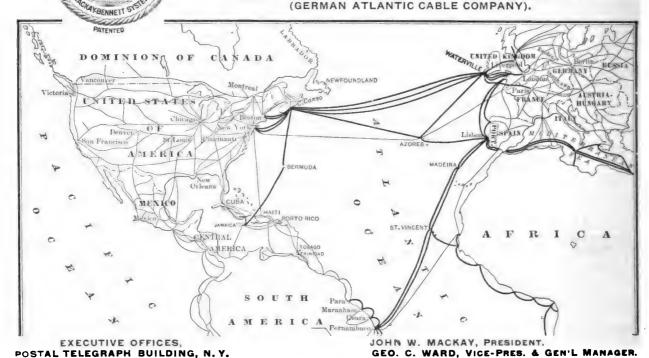
#### New Postal Office at Memphis.

The Postal Telegraph-Cable Company at Memphis, Tenn., has removed to its new offices on Madison street, that city, opposite the old quarters which had been occupied for several years. W. H. Locke is the manager. The new home of the Postal is a model one, and presents a very attractive appearance. The receiving department, offices, delivery department and operating section are on the street floor. In the basement are the storage rooms, etc. The front portion of the street floor is reserved for a lobby, and is separated from the office by a handsome natural oak counter. Back of this is the bookkeeping department and Manager Locke's office. The operating tables are arranged in regular order behind these desks. They will accommodate more than 100 operators at a single time. The dynamos, twelve in number, are arranged along the side of the operating section

# Commercial Cable Co.

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### ONLY SUCCESSFUL COMPETITIVE TELECRAPH SYSTEM EVER MAINTAINED:

Its proprietors and management determined from the first to establish a permanent business based on sound principles and business-like methods, and have steadfastly adhered to that policy.

Its employees are intelligent, diligent, energetic and enthusiastic. They are in sympathy with their employers and are working for the company's interests, recognizing that their interests are identical with the company's interests and that unless the Postal service is the BEST, public patronage cannot be retained.

Every man in the "Postal's" service is proud of the company's success.

These are the reasons why the "Postal" Company has been successful in the past and will be successful in the future.

The progress of the Postal Telegraph System is evidenced by the continued extension of land lines, the numerous and important railroad connections recently made, the valuable connections with the German cables, the Pacific cable (now being constructed), the Direct West Indies cable, the Bermuda cable, etc.

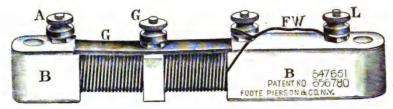


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# Argus Lightning Arresters.

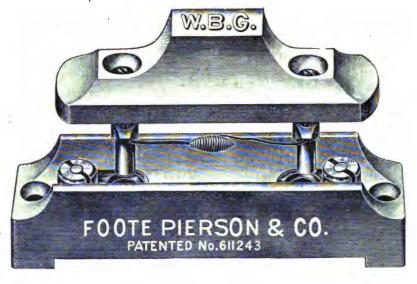
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